

EDUCATIONAL FILM CATALOG

From the collection of the

Prelinger
Library

San Francisco, California
2006

INTERNATIONAL FILM BUREAU

59 East Van Buren Street Chicago, Illinois

DIRECTIONS FOR USE

The arrangement is in accordance with the Dewey Decimal classification. An Outline of the classification will be found on page viii which will serve as a table of contents.

Title: The title of the film is given as listed by the producer. If a film is known by other titles cross references are made in the index to the title given.

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Guide: "Guide" is used to indicate the guide for the teacher with which most films prepared for educational purposes are accompanied.

INDEX

The second part of the Catalog is arranged alphabetically. All films included in the Catalog can be found here under title and subject.

KEY TO SYMBOLS

min	minutes	el	elementary
si	silent	jh	junior high
sd	sound	sh	senior high
f	inflammable	c	college
nf	safety	trade	trade school

Guide Teaching help

Standard Catalog Series

STANDARD CATALOG FOR PUBLIC LIBRARIES, 1934

First annual supplement, 1935

EDUCATIONAL FILM CATALOG

FICTION CATALOG

New edition planned

CHILDREN'S CATALOG, 1930

Fourth annual supplement (cumulated) 1934

Fifth annual supplement, September 1935

STANDARD CATALOG FOR HIGH SCHOOL LIBRARIES, 1932

Third annual supplement (cumulated) September 1935

SONG INDEX

SONG INDEX SUPPLEMENT

CHILDREN'S SONG INDEX

COSTUME INDEX

In preparation

EDUCATIONAL FILM CATALOG

A CLASSIFIED LIST OF
1175 NON-THEATRICAL FILMS WITH A SEPARATE
TITLE AND SUBJECT INDEX

COMPILED BY
DOROTHY E. COOK
AND
EVA COTTER RAHBEEK-SMITH



NEW YORK
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PREFACE

Because educators seem more appreciative of the usefulness of the film in education than ever before the H. W. Wilson Company now offers for films the same service that it has been offering for book selection for many years thru its Standard Catalog Series. The Educational Film Catalog is a selected list of 1175 non-theatrical films, classified, annotated and graded, and contains the necessary information for obtaining the films listed. It is not confined to strictly classroom films but includes those which are available for all non-theatrical uses, making this Catalog valuable to clubs, churches and various educational institutions as well as to schools.

Form of Catalog. This Catalog follows the form of the Standard Catalog for High School Libraries in that Part I is a classified list and Part II a title and subject index.

1. *Classified List.* The films are classified according to the Dewey Decimal classification. In this section is given the full information for each film: title, length, width, whether sound or silent, whether on inflammable or safety stock, sale or rental price, date of release or copyright, producer or authorized distributor, class number, annotation, grading and a teacher's guide, if any. Tho the Dewey Decimal classification was followed it was necessary to make simplifications and modifications. In this the classification in the Standard Catalog for High School Libraries has been followed whenever possible. Each film is annotated in order to make the selection of the proper film easier. When possible the annotations are quoted. As films are not so well reviewed as books, most of the sources of the annotations have been the lists from the various state visual instruction departments. The indication of such sources will show the user where the film has been found useful. Most of the grading indicated is from information given by our collaborators when voting on the films to be included and while they have been used successfully as indicated may be found useful in other grades as well.

For further explanation of each entry see *Directions for Use*.

2. *Index.* The index includes in one alphabet, the titles, subjects, and, if important, the authors and actors. The classification number is given so that by referring to Part I full information about the film may be found. Subjects have been assigned freely as educators have expressed their belief that even a few feet of film on a specific subject is valuable. The subjects given are those with which the film deals—not the particular courses in school in which they may be used. These often overlap.

Method of Compilation and Selection. This selected list is based on the advice of many educators, on a comparison of selected lists of films and on consultation with producers and others interested in non-theatrical films. The lists from 22 state visual instruction departments were cut up and titles mounted on cards. Besides these lists titles furnished from the catalogs of nearly 500 producers and distributors were considered. Tentative lists containing about 3500 titles were sent to educators for votes and suggestions. When these lists were returned the votes and suggestions were transferred to our cards. Altho the majority of films were selected from advice so obtained, others were added which were found on three selected lists including those of various states. No attempt was made to keep a proportion between classes consistent. It is regrettable that

undoubtedly many excellent films are omitted because they are not known. The compilers viewed a number of films and included a few which seemed to fill a lack in the Catalog. Films available on 35mm inflammable stock only were omitted. Some films made for advertising purposes have been included when the votes of our collaborators indicated they were useful for classroom work. Those preferring not to use such films will be able to recognize them by the producer's name. Where that does not serve as an indication a note to that effect is given. A number of films are included even tho old because they are apparently the best on the subject available. Producers may well use this list as a guide to their future production because it indicates the present deficiencies in certain fields.

No attempt has been made to indicate the physical condition of the film or its value from artistic and technical viewpoints.

Future Plans. While this Catalog is admittedly far from perfect, it is planned to revise it in two or three years. At the present time it is not possible to compile a well balanced list because (1) many suitable films are not yet available for the non-theatrical field (2) there are so many films about which very little advice is obtainable and (3) revision of many films now available is needed to make them up-to-date. Supplements to this Catalog will be issued regularly. In these supplements it will be possible from time to time to include films which should have been in this Catalog but had to be omitted for one of the above reasons, and also the best of the new films.

Acknowledgments. The compilers and the H. W. Wilson Company are deeply grateful to the many educators and visual instruction experts, especially to Robert A. Kissack, Jr., who so willingly gave their advice and cooperation. A list of those who checked the lists and helped in many ways is given following this preface.

Especial thanks are due for the information secured from the educational film survey jointly conducted by the United States Office of Education and the American Council on Education during the winter of 1935-36, wherein film owners throughout the country listed data about their films on special Film Catalog Cards. This film survey is one of the preliminary projects in connection with the establishment of an educational film institute, which is being sponsored by the American Council on Education.

Thanks are also due to the producers who answered innumerable questions and cooperated in sending us films for previewing. Alice Kurz helped in the clerical work.

April, 1936

DOROTHY E. COOK
EVA COTTER RAHBEEK-SMITH

COLLABORATORS

The compilers gratefully acknowledge the assistance so generously given by the educators named below who have checked our tentative lists and shown their interest in this Catalog in numerous ways.

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Outline of Classification

The following outline gives only the classes used in this list. For discussion of alternative places see notes at beginning of classes

000 General works		500 Science	
070	Journalism	510	Mathematics
	100 Philosophy	511	Arithmetic
136.7	Child study	513	Geometry
170	Conduct	520	Astronomy
172.4	Peace and war	530	Physics
173	Family	533	Air
	200 Religion	534	Sound
		535	Light
232	Jesus Christ	535.8	Practical applications. Lenses
264	Mass	536	Heat. Fire
266	Missions	537	Electricity
290	Religions	537.5	X-rays
291	Mythology	538	Magnetism
	300 Social sciences	539	Molecular physics
		539.7	Radioactivity
301	Sociology	540	Chemistry
311	Statistics	550	Geology
320	Political science	551	Physical geography
323.6	Citizenship	551.2	Earthquakes. Volcanoes
325	Immigration	551.3	Erosion
326	Negroes	551.31	Glaciers
330	Economics	551.36	Coast changes
331	Capital and labor	551.37	Aerial erosion
331.2	Wages	551.4	Surface features of the earth
331.4	Women in industry	551.44	Caves
331.8	Laboring classes	551.48	Rivers
332.4	Coins and coinage	551.49	Ground water
332.6	Stocks and stock exchanges	551.5	Meteorology
339.4	Saving and thrift	551.9	Agents of geologic work
352	Local government	553	Economic geology
353	United States government	553.5	Building stones
355	Army	553.6	Earthy economic minerals. Asbestos
359	Navy	560	Paleontology
369.43	Boy scouts	570	Biology
370	Education	571	Archeology. Prehistoric and primitive man
370.1	Theory of education	573.4	Anthropogeography
371.26	Educational measurements and tests	574	Physiologic biology
371.42	Vocations	580	Botany
371.5	School discipline	581	Physiologic botany
371.7	School welfare	581.5	Carnivorous and insectivorous plants
372	Elementary education	583	Flowers
372.4	Reading	587	Ferns
379	Public schools	589.2	Fungi
380	Commerce. Communication	589.3	Rockweed
382	Foreign trade	589.95	Bacteriology
383	Postage stamps	590	Zoology. Animal life
385	Railroads	591	Physiologic zoology
387	Ships	591.3	Embryology
392	Marriage customs	591.5	Habits and behavior of animals
395	Etiquet	591.57	Means of protection
399	Armor	591.9	Geographic distribution of animals
	400 Philology	591.92	Marine and fresh-water fauna
440	French language	593	Protozoans. Elementary animals
		593.4	Sponges

917.123 Alberta
 917.13 Ontario
 917.14 Quebec
 917.15 New Brunswick
 917.16 Nova Scotia
 917.2 Mexico
 917.28 Central America
 917.29 West Indies
 917.295 Puerto Rico
 917.299 Bermuda
 917.3 United States
 917.4 North Atlantic states
 917.47 New York state
 917.471 New York city
 917.5 Southeastern states
 917.52 Maryland
 917.53 Washington, D.C.
 917.55 Virginia
 917.63 Louisiana
 917.7 North central states
 917.8 Western states
 917.86 Montana
 917.87 Wyoming
 917.88 Colorado
 917.9 Pacific coast states
 917.91 Arizona
 917.94 California
 917.95 Oregon
 917.98 Alaska
 918 South America
 918.1 Brazil
 918.2 Argentine Republic
 918.3 Chile
 918.4 Bolivia
 918.5 Peru

918.6 Panama
 919 Oceania
 919.14 Philippine Islands
 919.2 Dutch East Indies
 919.21 Sumatra
 919.22 Java
 919.31 New Zealand
 919.6 Polynesia
 919.61 Samoa
 919.69 Hawaii
 919.8 Arctic regions

92 Biography

929.9 Flags

930-999 History

932 Egypt
 942.03 Great Britain—History—1154-1399
 943 Germany
 949.4 Switzerland
 970.1 Indians
 973 United States
 973.1 Discovery
 973.2 Colonial period
 973.3 Revolution, Confederation
 973.4 Constitutional period
 973.6 Period of 1845-1861
 973.7 Civil war
 973.9 20th century
 978 Western states
 979.4 California

F Photoplays. Feature or recreational pictures

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Educational Film Catalog

In this reprint a few titles have been noted as "withdrawn" because they can no longer be secured from the producers. It is, however, highly probable that some of them may still be had from various distributors.

070 JOURNALISM

Journalist. (Vocational guidance ser.)
12min 16-si-\$24 35-si-nf-\$80 prior 1927
DeVry 070

A vocational film by Fred C. Smith, formerly editor, Magazine of vocational guidance, Harvard university

"Duties of a reporter, a special writer, and a foreign correspondent on a metropolitan newspaper; international news gathering agencies; 're-write' men; caption writing; the organization of a modern newspaper office; physical make-up; operation of the plant." Indiana

Jh-sh Guide

Newspaper in the making. 8min 16-si-\$8.98
35-si-f-nf-apply Bray 070

"Getting out a daily newspaper, from the time the reportorial staff receives its assignments to the final work of the presses in printing, folding and discharging the edition." Producer

100 PHILOSOPHY

136.7 CHILD STUDY

Films on physiological aspects of this subject have been classified in 649

Baby's day at twelve weeks. 10min 16-sd-\$50 35-sd-nf-\$100 1935 Erpi 136.7

By Dr Arnold Gesell, director, Yale clinic of child development

"In this picture the infant is followed through his domestic day from the time of his waking at six o'clock in the morning until the final breast feeding at ten o'clock at night. His dressing, bathing, feeding, daytime naps, play, and general care are presented in concrete detail along with an interpretation of the significance of his various reactions. For the most part the picture is non-technical and well suited for viewing by groups interested in the training and care of the infant." Producer sh-c Guide

Behavior day at forty-eight weeks. 10min 16-sd-\$50 35-sd-nf-\$100 1935 Erpi 136.7

By Dr Arnold Gesell, director, Yale clinic of child development

"Wholesome methods of child care are portrayed in numerous situations, including the administration of cod liver oil and orange juice, the bath, dressing, feeding, elimination, floor play and daytime naps and sleep. Emphasis is placed upon the psychological implications and the educational significance of the infant's everyday experiences." Producer

sh-c Guide

Behavior patterns at one year. 10min 16-sd-\$50 35-sd-nf-\$100 1935 Erpi 136.7

By Dr Arnold Gesell, director, Yale clinic of child development

"Of a semi-technical nature and portrays the behavior patterns of a normal infant fifty-two weeks of age. The baby's manipulation and other reactions to one, two, three and ten cubes are interpreted and discussed by the narrator. The picture continues with the study of other test situations involving a cup and spoon, cup and cubes, pellet, pellet and bottle, ball, ring and string, paper and crayon, a performance box and a form board." Producer sh-c Guide

Early social behavior. 10min 16-sd-\$50 35-sd-nf-\$100 1935 Erpi 136.7

By Dr Arnold Gesell, director, Yale clinic of child development

"In this picture the observer witnesses the manifestations of infant personality in a variety of social settings. Ten different children from eight weeks to seven years of age are depicted. Individual differences are emphasized. The social significance of the household is conveyed by scenes which reflect parent-child relationships and interaction between brothers, sisters, and adults." Producer

sh-c Guide

Growth of infant behavior: early stages. 10min 16-sd-\$50 35-sd-nf-\$100 1934 Erpi 136.7

By Dr Arnold Gesell, director, Yale clinic of child development

The activities and responses of an infant seated in a small chair in a photographic dome are here recorded. Simultaneous side-by-side projection gives a comparison of the same infant at different ages. There are also animated diagrams

sh-c Guide

Growth of infant behavior: later stages. 10min 16-sd-\$50 35-sd-nf-\$100 1934 Erpi 136.7

By Dr Arnold Gesell, director, Yale clinic of child development

This is a demonstration of the increasing ability of the infant to use his hands in manipulating objects. The growth of the prenatal hand is also shown, by a series of animated drawings

sh-c Guide

Learning and growth. 10min 16-sd-\$50 35-sd-nf-\$100 1935 Erpi 136.7

By Dr Arnold Gesell, director, Yale clinic of child development

"Attempts to clarify some of the principles which govern the learning process. The possibilities and limitations of training infants from twenty-four to forty-eight weeks of age are authentically described in pictorial continuity. Several learning problems are analyzed with special reference to the effect of maturity. The relationships between age, growth, and learning are indicated. Laws which determine learning in older children are pointed out." Producer

c Guide

Life begins. 70min 16-sd-apply 35-sd-nf-apply 1934-35 Erpi 136.7

Culmination of 24 years of clinical practice and of research on problems of infancy at the Yale clinic of child development under the direction of Dr Arnold Gesell

"Dr. Gesell directs attention to the need for a better understanding of the laws governing the infant's mental and physical growth, so that a happier social order may be developed. He proceeds to interpret the similarities, differences and characteristic ways in which infants react to standardized test situations; their everyday life, including sleeping, waking, dressing, bath, their plays and games, learning and emotional behavior, and social reactions to the family group. . . Concludes with. . . comments. . . relative to the education and mental hygiene of infants and the obligation of science, home, school and society to promote the infant's welfare by periodical health examinations, and supervision of his mental growth." Producer

c Guide

Stages of child growth. 20min 16-sd-\$85 35-sd-nf-\$190 1931 Erpi 136.7

By Dr Charlotte Bühler, professor of child psychology, University of Vienna

"Tests which have been devised to measure sensory acuity, reactions to social stimuli and powers of imitations in infants and children of pre-school age. In addition, his curiosity, body control and memory are tested. The sum total of the child's response to these tests indicates how well he will be able to adjust himself to his environment. This picture demonstrates a different testing technique from that in use in the Yale Clinic of Child Development." Producer

sh-c Guide

Study of infant behavior. 20min 16-sd-\$85 35-sd-nf-\$190 1930 Erpi 136.7

By Dr Arnold Gesell, director, Yale clinic of child development

This is an introduction to the clinical and research activities of the Yale clinic of child development showing the reactions of infants in standardized situations. Recorded at advancing ages it shows the trends and stages of early mental growth. It is further an exposition of scientific methods, portraying the techniques of the photographic dome, the cinemanalysis of behavior patterns, a diagnostic examination and the procedure of the Yale guidance nursery

sh-c Guide

Thirty-six weeks behavior day. 10min 16-sd-\$50 35-sd-nf-\$100 1935 Erpi 136.7

By Dr Arnold Gesell, director, Yale clinic of child development

"The infant boy whose behavior day at 12 weeks was charted (in Baby's day at twelve weeks, listed above) is now 36 weeks old. He has made striking progress. His reactions are compared with those which he experienced twenty-four weeks earlier. His responses to the ministrations of his father and mother are commented upon. . . The very first successful creeping efforts observed during his efforts to advance upon and seize a ball on the floor. An animated clock announces the changing events of the day's schedule." Producer

sh-c Guide

150 PSYCHOLOGY

For films on Child study see class 136.7

170 CONDUCT

Girl who found herself. 1R 16-si-apply 35-si-f-nf-loan Western electric 170

"Story of a girl who acquired self-confidence through athletic activities." Texas Jh

Learning to live. 4R 16-si-rent \$2 35-si-nf-rent \$3 Religious motion picture found. 170

How Berea college and allied schools in Berea, Kentucky prepare students for life Jh-sh

172.4 Peace and war

Why? 1R 35-sd-nf-rent \$2 YMCA 172.4

Also available in a 2R version (16-si-rent \$2 35-si-nf-rent \$3)

Explains, in animated cartoon, the cause and prevention of war, demonstrating how futile is competitive armament and showing how great a waste is involved. It is an appeal for peace which should be widely shown

173 Family

Children grow up. 45min 16-si-rent \$4 1935 Religious motion picture found. 173

By Charles J. Carbonaro and judged one of the ten best pictures of 1935 by Movie makers magazine

"A study of relationships with 'adult children' in the home. This film is based on an actual story, and stresses the importance of the understanding mother with the older teen-age girl or boy. The actors in the picture were drawn from the Little Theatre group of the Central Branch, Y. W. C. A., New York city. Both boys and girls appear in the story. This film may be used to explain some of the problems met by family-welfare workers. It may also be used with discussion groups interested in youth or with agency clients who are having similar problems in their own homes." Guide to motion pictures

Obedience. (Citizenship ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 173

By C. A. Stebbins, formerly with the United States Bureau of education

Demonstrates through the behavior of Emile that the principles of good citizenship practiced in the home lead to good citizenship elsewhere

el-Jh Guide

200 RELIGION

232 JESUS CHRIST

Christ confounds His critics. (Episodes in the life of Christ) 15min 16-si-rent \$1.50 35-si-nf-rent \$2.25 Religious motion picture found. 232

"Two Pharisees, convinced against their will of Jesus' power, bring to Him a woman who has sinned and is to be stoned. Outwitted and ashamed by His response, they depart. A lesson in forgiveness." Producer

Christ confounds his critics—Continued

Three other subjects in this series are "Forgive us our debts" (2R 16-si-rent \$3 35-si-nf-rent \$4.50) "Rich young ruler" (2R 16-si-rent \$3 35-si-nf-rent \$4.50) and "Unwelcome guest" (1R 16-si-rent \$1.50 35-si-nf-rent \$2.25)

King of kings. 112min 16-sd-rent \$24 Kodascope 232

A Cecil B. DeMille production
A beautiful story of the life of Jesus with H. B. Warner playing the part of The Christ, Ernest Torrence as Peter and Joseph Schildkraut as Judas, supported by an excellent cast

264 Mass**Sacrifice of the mass. 30min 16-si-\$48 1931 Eastman 264**

Made at the suggestion, and with the approval, of His Excellency Most Reverend John Francis O'Hern, late Bishop of Rochester

"Introductory scenes depict the Old and New Law Sacrifices, and the vesting of the celebrant. In the sequences showing the ceremony itself, much of the filming was done from positions close to the altar, thereby bringing out every movement of priest and server. Interpretive 'visions' are inserted at various points to emphasize the significance of the Mass." Producer

el-jh-sh Guide

266 MISSIONS**Padre Sahib. 4R 16-si-rent \$4 Religious motion picture found. 266**

Produced by Rev. and Mrs William L. Rogers. Everyday missionary life in Northern India

290 RELIGION**Buddhism. 24min 16-si-apply Religious motion picture found. 290**

Suitable for various types of church and mission study and for general cultural purposes as well as for studying comparative religions. This film shows the strength of the Buddhists and many details concerning the symbolism of Buddhism

Islam in Egypt. 14min 16-si-apply Religious motion picture found. 290

Suitable for various types of church and mission study and for general cultural purposes as well as for studying comparative religions

"The learning and mysticism of Mohammedanism in Egypt, the intense loyalty of its followers, its strong customs and laws of life are here portrayed, and against this are revealed some of its faults." Producer

Primitive religions. 16min 16-si-apply Religious motion picture found. 290

Suitable for various types of church and mission study and for general cultural purposes as well as for studying comparative religions. Interprets the beauty, intensity and the underlying savagery of the basic religious attitudes of man toward the forces of nature

291 MYTHOLOGY**Gorgon's head. 35min 16-si-\$30 35-si-nf-\$60 1925 Metropolitan museum 291**

"The story of Perseus is presented in this film. A student comes into the Museum to make a study from a Greek vase; the figures come to life and enact the tale of the slaying of the Gorgon and its sequel. The Museum was fortunate in having the coöperation of Edith Wynne Matthison and Charles Rann Kennedy in two of the rôles." Producer

Withdrawn.

Jh

300 SOCIAL SCIENCES**301 Sociology****Interdependence. 30min 16-si-\$29 35-si-nf-\$80 1930 Harvard 301**

Prepared for the Moses-Kimball fund for the promotion of good citizenship under the supervision of the Graduate school of education of Harvard university

"Designed to be used very generally in social science instruction and is adapted particularly to serve as the introductory unit of any course in civics. The film is a presentation of one of the most important facts of modern civilization—the dependence of individuals and communities upon one another. Interesting action scenes show the specialized jobs of the Town and City which increase dependence as well as benefits. There are scenes of dairy farms, of stockyards, of wheat fields and bakeries, of forests and lumber camps, of coal mines, and of the vast network of railways that bind together our entire country. Finally, by means of scenes taken in foreign countries throughout the world, the picture ends with the conclusion that all nations as well as individuals are interdependent and that progress depends upon their intelligent co-operation." Producer

"[Useful in] civics, history and geography [classes]" Am. museum of nat. hist.

el-jh-sh Guide

311 STATISTICS**Frequency curves. 8min 16-si-\$12 1929 Eastman 311**

"Gives the student a conception of frequency distribution and an interpretation of frequency curves. The film is valuable in college classes for engineering, chemistry, biology, sociology, insurance, psychology, etc. Grains of a precipitate are classified according to size. It is shown, by animation, that as the number of classes increases, the accuracy of the representation increase, but so does size." Ohio sh Guide

320 POLITICAL SCIENCE**323.6 Citizenship**

Films on this subject have been classified in 353 with other material on government

325 Immigration

Immigration. (Citizenship ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry
325

By C. A. Stebbins, formerly with the United States Bureau of education

"Story of an Italian immigrant who came to America. The film contrasts his opportunities in the two countries and shows what he accomplished in America thru thrift and hard work." Indiana

el-jh Guide

Immigration to the United States. 1R 16-si-apply 35-si-nf-apply Soc. for visual educ.
325

"Shows the important 'waves' of immigration and brings out the causes back of each. The European background of the immigrant is presented, as well as special sections of the United States settled by the English and Dutch, the Irish and Germans, and other foreign peoples. The contributions immigrants have made to the foundation and development of a separate nation are indicated. The fact is pointed out that the future of the United State depends on the children of immigrants as well as on those who have longer enjoyed this country's privileges." Producer
Guide

326 Negroes

Negro artists at work. 4R 16-si-rent \$4 Religious motion picture found. 326

"Showing several Negro artists at work in their studios and emphasizing the industriousness in bread-winning activities that is in the background of much Negro art production." Producer

327 International relations

For films dealing with war and peace see 172.4

330 ECONOMICS

331 Capital and labor

331.2 Wages

Fifty-two pay checks each year. 25min 16-sd-loan 35-sd-f-nf-loan 1935 Progress film
331.2

Narrated by J. Manley Phelps. Sponsored by Nunn, Bush and Weldon shoe company

This is the story of the plan worked out by the Nunn, Bush and Weldon shoe company of Milwaukee to give their employees a yearly salary thus carrying them over enforced shut-down periods. It is produced from an academic point of view and will provoke discussion among students on present day economic problems. Classes in sociology and economics will find it of especial interest as will church audiences interested in social betterment

sh-c

331.4 Women in industry

Behind the scenes in the machine age. 35min 16-si-loan 35-si-nf-loan 1931 Women's bur.
331.4

Produced by Atlas educational film co.

"Shows how modern invention is rapidly replacing hand labor. The film shows how working conditions for women have been improved and also points out possible ways for further improvement. An excellent picture for the study of vocations, shop management, and economics." Indiana

Story of the women's bureau. 15min 16-si-loan 35-si-nf-loan 1929? Women's bur.
331.4

Produced by Edward B. Pence

Development of the Bureau and how it works to achieve and maintain comfortable working conditions for the woman in industry

331.8 Laboring classes

Industrial worker. (Vocational guidance ser.) 12min 16-si-\$24 35-si-nf-apply prior 1927 DeVry
331.8

A vocational film by Fred C. Smith, formerly editor, Magazine of vocational guidance, Harvard university

"Life in factory and at home." California

"Film lesson in vocational guidance. Comparison of number of pupils finishing grade school, high school, and college. Conveys the necessity of preparing one's self for opportunities which may arise." Illinois
jh-sh Guide

Tale of two rivers. 40min 16-si-rent \$4 Sutherland
331.8

The scenes of this film are in the valley of the Arkansas river and the Tennessee river. We are shown the rich cotton plantations; taken into the fields where child labor is rampant and into the shacks of the share croppers where poverty and disease run rife. Shows some of the magnitude and beauty of the social-economic experiment of the Tennessee valley authority and gives as an example of a well planned city, Norris, in the upper Cumberlandlands

Guide

332 Money and banking

For films on saving and thrift see 339.4

332.4 Coins and coinage

Making money. (Seeing Canada ser.) 8min 16-si-\$9 35-si-nf-apply Canadian gov't.
332.4

"A film showing how Canada mints its coinage. This film is of an educational type and has been in large demand both in theatrical and non-theatrical circles. It is the only film of its kind ever produced in Canada." Indiana

"How gold and silver coins are made at Royal Mint, Ottawa." California

sh

332.6 Stocks and stock exchanges

Mechanics of the nation's market place.
25min 16-si-loan 35-si-f-nf-loan 1929
Dynamic 332.6

Produced for the New York stock exchange

"A definite and accurate record of the training and education given the youthful employees of the New York Stock Exchange, depicting a career of instruction and training to develop character and a good business sense. [Useful in] civics [classes]" Am. museum of nat. hist.

jh-sh

Nation's market place. 12min 16-si-loan 35-si-nf-loan 1929 Dynamic 332.6

Produced for the New York stock exchange, being the only motion picture taken on the floor of the Exchange

"A clear, graphic and understandable portrayal of the method and system of transactions in stocks, accurately depicting the work inside and behind the New York Stock Exchange. [Useful in] civics, geography and commercial geography [classes]" Am. museum of nat. hist.

jh-sh

339.4 Saving and thrift

Thrift. (Citizenship ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 339.4

By C. A. Stebbins, formerly with the United States Bureau of education

"How thrift may be practiced in matters of health, dress, time, etc., as well as in earning and spending; the practice of thrift as a part of character building." Univ. of Hawaii

el-jh Guide

352 Local government

Working with civic organizations. (Citizenship ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 352

By C. A. Stebbins, formerly with the United States Bureau of education

"How a class in civics cooperated with a chamber of commerce in starting an effective movement to beautify a city. The class selects an ill-kept house and makes it a beauty spot. The effect of this work carries thru the entire neighborhood in encouraging clean-up work and civic pride." Indiana

el-jh Guide

353 United States government

This number is used for films on government and civics

Citizen and his government. 2R 16-si-apply 35-si-nf-apply 1921 Soc. for visual educ. 353

"Re-edited and re-photographed and in addition to being a wonderful class room film, is excellent for adult groups and general programs." Producer

"This film is in story form showing an American mechanic introducing his foreign relative to some common city sights and

institutions explaining how our government protects the health and lives of the workmen, how it performs hundreds of services every day in protecting the life of the public. How health and property are protected; how education is administered; and how parks and playgrounds are provided." Indiana

sh Guide

Service. (Citizenship ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 353

By C. A. Stebbins, formerly with the United States Bureau of education

"A lesson for children bringing out thru story form the fact that they owe service to their parents in performing some of the home duties. The picture shows how people are dependent in so many ways upon service rendered by others and how each person in turn has a service which he must perform if he too be a good citizen." Indiana

el-jh Guide

355 Army

Gentlemen cadets. (Seeing Canada ser.) 8min 16-si-\$11.10 35-si-nf-apply Canadian gov't. 355

"An educational type of film dealing in an interesting manner with the life and training of cadets at the historic Royal Military College at Kingston, Ontario." Texas

359 Navy

Fleet ho. 1R 16-si-sd-loan 35-sd-f-loan Navy recruiting serv. 359

"Peace time missions of the Navy. Nicaraguan Earthquake Disaster. Church Services on board ship. Fleet at Sea." Producer el-jh-sh-c

Gray armada. 1R 16-si-sd-loan 35-sd-f-loan Navy recruiting serv. 359

"Battleships, planes, submarines in a picture attack." Colorado

jh

Sports of sailormen. 1R 16-si-sd-loan 35-sd-f-loan Navy recruiting serv. 359

"Callisthenics, baseball, fencing, boxing, wrestling, rowing, and football are all shown as they are carried on in the sports of the sailors." Colorado

jh-sh

Sprinkles of salt. 1R 16-si-sd-loan 35-sd-f-loan Navy recruiting serv. 359

"Navy routine life on board ship explained in dialogue." Producer

jh-sh

369.43 Boy scouts

America's heritage. 30min 16-si-loan 35-si-nf-loan prior 1927 Goodyear 369.43

Some of the beauties of New England are revealed in this Boy Scout camping trip which covers also various phases of camp life—fire building, trailing, life-saving, etc. The story is told by one of the boys in letters to his mother

370 EDUCATION

370.1 Theory of education

Creative approach to education. 20min 16-sd-\$85 35-sd-nf-\$190 1931 Erpi 370.1

By Dr Hughes Mearns, professor of education, New York university

"Dr. Mearns interprets the philosophy of creative education. True-to-life scenes are interpolated in the lecture to illustrate his points that: children have thinking minds of their own and long to express their true feelings; they possess several vocabularies appropriate to their various environments; they are naturally truthful; they are individuals. He reads a number of exceptional poems which children have written in a stimulating environment." Producer c Guide

Dynamic learning. 20min 16-sd-\$85 35-sd-nf-\$190 1931 Erpi 370.1

By Dr W. H. Kilpatrick, professor of education, Teachers college, Columbia university

"Dr. Kilpatrick, leading exponent of the doctrines of John Dewey, sets forth some of the principles underlying 'creative' or 'progressive' education. He develops the idea that whatever a child learns must be related to the situation with which he is confronted. The type of education needed today is of the dynamic sort. Methods by which this dynamic learning can be fostered are illustrated by actual classroom scenes." Producer c Guide

371.26 Educational measurements and tests

Few tests of child intelligence. 10min 16-sd-\$50 35-sd-nf-\$100 1930 Erpi 371.26

By Dr Ina Craig Sartorius, assistant principal, Horace Mann elementary school "Gives a sane and authentic view of the subject of intelligence tests. Of interest and value both to teachers and parents." Oregon c Guide

371.42 Vocations

Choosing your vocation. 10min 16-sd-\$50 35-sd-nf-\$100 1931 Erpi 371.42

By Dr Harry D. Kitson, professor of education, Teachers college, Columbia university

"Dr. Kitson enacts the role of a psychoanalyst as he interprets the vocational problems of a high school boy who is making an effort to adjust himself. The boy faces his first problem when he desires money to purchase a camera. His first attempt at a 'white collar' job is unsuccessful. Further research and reading convince the boy that he must enter a vocation which will permit him to utilize his special talents and interests. Following a period of 'try-out' he reaches his goal." Producer Jh-sh Guide

Guidance in public schools. 20min 16-sd-\$85 35-sd-nf-\$190 1931 Erpi 371.42

By Dr Richard D. Allen, assistant superintendent of schools, Providence, R.I.

"Some of the problems of organizing and administering guidance in public schools. . .Orientation courses, educational guidance, the testing of pupils, vocational

guidance, adjusting the pupil to the school and to the community. . .Procedures used in the Providence, Rhode Island, public schools." Producer c Guide

371.5 School discipline

School discipline. (Citizenship ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 371.5

By C. A. Stebbins, formerly with the United States Bureau of education

Distinguishes between external and internal influences as they relate to conduct; and suggests a simple yet effective plan by which a school might be disciplined el-jh Guide

371.7 School welfare

School industries. (Citizenship ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 371.7

By C. A. Stebbins, formerly with the United States Bureau of education

"School children start vegetable garden and turn old room into cafeteria. Girls learn to cook and at small cost serve lunch." California el-jh Guide

372 Elementary education

Elementary teacher as a guide. 20min 16-sd-\$85 35-sd-nf-\$190 1931 Erpi 372

By Dr B. H. Bode, professor of education, Ohio state university in collaboration with Dr Laura Zirbes, associate professor of principles of education, Ohio state university

"Dr. Bode claims that the problem of education is to determine the desirable point between two extremes; on the one hand, telling the pupil what to do; and on the other, asking him what to do. Various methods of arriving at this point are illustrated in the picture by showing a number of actual classroom situations." Producer c Guide

Primary teacher at work. 20min 16-sd-\$85 35-sd-nf-\$190 1931 Erpi 372

By Louise L. Stone, classroom teacher, Bronxville, N.Y., public schools

"A classroom teacher demonstrates her philosophy of education in a classroom setting. Miss Stone gives a description of the room's equipment and furnishing which stimulate creative thinking and activity. She calls attention to the exhibits of creative work done by the children in different fields of interest, explains how she prepares and guides the children during the school day, and evaluates the progressive method with respect to pupil achievement." Producer c Guide

372.4 Reading

Teaching of reading. 2R 16-sd-\$85 35-sd-nf-\$190 1931 Erpi 372.4

By Dr Arthur I. Gates, professor of education, Teachers college, Columbia university

"Dr. Gates demonstrates modern methods of teaching reading by showing actual

Teaching of reading—Continued

classroom procedure over an extended period, during which the class stages a miniature circus." Producer
c Guide

379 Public schools

C7C Citizens of the future. (Face of Britain ser.) 21min 16-sd-apply 35-sd-f-apply 1935 Gaumont British 379

Produced in collaboration with the National union of teachers

"A survey of the methods employed in public education in Great Britain, at the present day, chiefly in the elementary schools. Starting with the infants (up to the age of seven) and the Junior Schools, the film shows us intimately pupils at work and at play, and proceeds in the same manner to the Senior Schools, and so on briefly to the Central and Technical Schools, etc., indicating finally how all training undertaken is aimed at fitting children for the practical business of life, in industry, commerce, commercial art, on the land, and in the home. Great emphasis is laid on the manipulative and practical aspects of modern education, and the endeavour to make everything as interesting as possible and to give full scope for initiative. A typical scene shows the very small ones managing their own percussion-band. The film ends with various shots of children at physical training marching in formation past the camera, with the sky as background. An attractive film. . . This film should be considered . . . as a pictorial impression rather than as a full statement, though within its limitations it is of great interest. . . Of general interest, particularly for teachers and parents." British film inst.

Free schools—hope of democracy. 2R 16-si-\$24 1932 Eastman 379

"A splendid production showing the functions and development of the public schools and the very important part they play in the life of today. This film should be shown in every city. It is a real argument for the public schools." Iowa state college

"Will be found very interesting for Parent Teacher groups and other organizations interested in the advancement of education." Iowa univ.

Guide

380 COMMERCE. COMMUNICATION

A film covering many kinds of transportation is classed here. Those depicting one form only are classed with their specific number (e.g. Railroads 385, Aeronautics 629.1)

Development of transportation. 10min 16-sd-\$50 35-sd-nf-\$100 1935 Erpi 380

"Transportation developments within the United States during the past one hundred fifty years. The physical barriers, the spread of the railroad network, and the subsequent highway development, are shown rapidly and clearly. Principal stages in the development of the locomotive and automobile are portrayed. Modern transportation devices including the airplane are shown in relation to their potentialities and our utter dependence upon them." Producer

el-jh Guide

Farther, faster and safer. 25min 16-sd-loan 16min 35-sd-nf-loan 1934 Pennzoil 380

History and development of transportation in the United States. Trains, planes, tractors, racing cars
el-jh-sh-c

Land transportation. 15min 16-si-\$25 35-si-f-nf-\$75 1929 Harvard 380

"Dealing with the progression of land transportation through the ages, this film demonstrates the diminishing size of the world as successive forms of transport develop. Methods illustrative of past periods are shown as they still last today in out-of-the-way parts of the world. Human carriers, beasts of burden, primitive wheel carts, carriages, stage coaches, and then various forms of modern transportation by steam, electricity and motor are all represented. The great air-liners are shown loading and taking off." Producer

jh

Modern commerce. (World geography ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 380

By De Forest Stull, Teachers' college, Columbia university

"The rich content of this subject makes it necessary to issue this film lesson in two sections; one dealing with the Mediterranean and historic backgrounds; and the other with modern commerce, especially on the Atlantic and Pacific coasts. [The manual accompanying this, should, therefore, be used in conjunction with the lesson plan issued on the section relating to historic backgrounds (People who live by the sea, class 573.4), many of the questions and projects and all of the references given in that manual being relevant to this lesson." Iowa univ.

el-jh Guide

Transportation. 15min 16-si-\$17.28 35-si-f-nf-apply 1926 Bray 380

By Morris Meister, head of science department, Haaren high school, New York city

"Man's effort to overcome time and distance forces greater than his own, is traced from the most primitive times and places to ultra-civilized New York. Dogs, llamas, burros, horses, coaches, man-power vehicles, sail, steam, electricity, aircraft, the place of each in human progress is shown." Producer

Transportation. (General science ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 380

"Principles of steam and gas engines used in locomotives, automobiles, and airplanes." California

jh-sh Guide

Wheels of progress. 1R 35-si-nf-loan 1927 U.S. agric. 380

A Bureau of public roads film

"Transportation in America from the day of the bicycle and the fancy turnout to modern methods of transportation. How the gasoline engine revolutionized American transportation and how the motor car and the truck are contributing to progress and prosperity in the U.S." Illinois

Wings of a century. 1R 16-si-\$20 Bell & Howell 380

Also available in a ½R version (16-si-\$10)

"A history of transportation in America from the Indian travois to the modern airship, as shown in pageant form at the Century of Progress exposition, Chicago." Utah

382 Foreign trade

Carrying American products to foreign lands. 1R 16-si-loan 35-si-nf-loan prior 1927 U.S. steel 382

"Shows a diagram of a steel ship, the cargo holds, captain's and officers' quarters. Placing cargo for export; galvanized iron sheets, locomotives for the Far East, nails, barbed wire, and ammonium-sulphate; details of running a ship. Unloading imports: rubber from Sumatra, hemp from the Philippines, and tin from Singapore. [Useful in] geography and commercial geography [classes]." Am. museum of nat. hist. el-jh-sh

383 Postage stamps

Uncle Sam's stamp factory. 5min 16-si-\$6.55 35-si-f-nf-apply Bray 383

"The postage stamp production section of the Bureau of Printing and Engraving, Washington. Engravers at work; an engraved plate; printing 20,000 stamps a day; tinting, gluing, perforating, cutting." Producer jh

385 Railroads

King of the rails. 1R 16-si-loan 35-si-f-nf-loan General electric 385

"Shows the evolution of transportation on land. Scenes include steam locomotives in freight and passenger service, ending with the stimulus which electricity has given to the development of transportation. [Useful in] history, general science, physics and geography [classes]." Am. museum of nat. hist. el-jh-sh

Transportation. 30min 16-si-loan 35-si-nf-loan prior 1927 Bur. of mines 385

Made in cooperation with the Westinghouse electric & manufacturing company "Early methods of transportation, the first use of wheels on a vehicle, the first steam locomotive, discovery and harnessing of electricity, and the assembling of a modern electric locomotive. The film shows railroads that have been electrified, and different types of electric locomotives." Indiana

"[Useful in] history, physics, geography and shop work [classes]." Am. museum of nat. hist. el-jh-sh

387 Ships

Ocean liners. 15min 16-si-\$24 1930 Eastman 387

"This film can be used effectively in classes in transportation. Steps involved in building an ocean liner. Loading of cargo and supplies. Fueling. Life boat inspection and medical inspection of the crew. Quarters of the crew members. By animation and actual photography the film shows how vessels are controlled from the bridge. In the engine room. Passenger life on a large ship." Indiana el-jh-sh-c Guide

Queen of the waves. 1R 16-si-loan 35-si-f-nf-loan General electric 387

"The story of the progress of American navigation, from the time when primitive inhabitants paddled across streams on logs or constructed crude rafts until their skill mastered the building of a bark canoe.

The scenes of these early boats gliding along the wilderness streams are in striking contrast to the electrically propelled battleship on the high seas. After a short but stormy trip to sea we meet the 'Queen of the Waves,' an electrically propelled battleship. The film bridges five hundred years of American history. [Useful in] history and general science [classes]." Am. museum of nat. hist. sh

Transportation on the Great Lakes. 15min 16-si-\$24 1931 Eastman 387

"May be used in studying transportation, or any region bordering on the lakes. The first part of the film, dealing with the formation of the lakes, is adapted to physical geography classes. Formation of the Great Lakes. Opening lake traffic. Bulk freighters and car ferries. Package and passenger liners." Indiana Guide

392 Marriage customs

Peasant wedding in Hesse. 2R 16-si-sd-loan 35-si-sd-nf-loan German tourist 392

"Intensely interesting is the ritualistic marriage ceremony still carried out to the present day, from the elaborate preparation of the bride to the transportation of her dowry in a hay-wagon." Young men's Christian assn.

Of general interest jh-sh

395 Etiquet

Japanese table manners. ¼R 16-si-\$5 Burton Holmes 395

Japanese girls using their "hashi" or chopsticks

399 Armor

Visit to the armor galleries. 30min 16-si-\$60 35-si-nf-\$120 1922 Metropolitan museum 399

Reel 1 is on chain mail and Gothic armor and reel 2 is on Maximilian and enriched armor. They should be shown together since they present in historical sequence knowledge not easily obtainable in any other way. Many feats are performed on foot and on horseback by knights in authentic armor. The beauty of design in armor as well as of the armorers' skill in modeling in steel is shown jh-sh

400 PHILOLOGY

440 FRENCH LANGUAGE

French "U". 5min 16-sd-apply 35-sd-f-apply Gaumont British 440

"Explains the actions of the mouth, lips and tongue for correct pronunciation of the vowel sound 'U.'" Producer Guide

La gare. 5min 16-sd-apply 35-sd-f-apply Gaumont British 440

"Showing the expressions practiced in actual use at a railway station." Producer Guide

500 SCIENCE

510 MATHEMATICS

511 Arithmetic

- Individual differences in arithmetic.** 20min
16-sd-\$85 35-sd-nf-\$190 1931 Erpi 511
By Dr G. T. Buswell, professor of education, University of Chicago
"Three diagnostic techniques. . . First . . . an elaborate machine which photographs the child's eye movements in adding figures. . . Next. . . a machine which records the rhythm of a pupil's adding. The third method illustrated is one which the teacher in the classroom can use to diagnose difficulties which hinder pupils in the mastery of the subject." Producer
c Guide

513 Geometry

- Play of imagination in geometry.** 10min
16-sd-\$50 35-sd-nf-\$100 1931 Erpi 513
By Dr David E. Smith, professor emeritus of mathematics, Teachers college, Columbia university
A method of presenting geometry to students which recognizes difficulties in grasping spatial relationships. The use of animated devices to make these relationships clearer. Angles, parallel lines, planes, cones, and spheres and a picturization of the ideas of infinity
sh Guide

520 ASTRONOMY

- Birth of the earth.** 6min 16-si-\$7.90 35-si-f-nf-apply Bray 520
"How the earth and other planets were born, combining actual photography with clever animated drawings." Colorado
Communing with the heavens. (Seeing Canada ser.) 13min 16-si-\$9.75 Canadian gov't. 520
"Film trip through the Dominion Observatory at Ottawa, Canada, giving a clear insight into the work of the astronomy, seismography and other scientific undertakings carried on here." Producer
"Useful in nature study and general science [classes]." Am. museum of nat. hist.
sh

- Earth and worlds beyond.** 12min 16-si-\$24 35-si-nf-\$50 1921 Soc. for visual educ. 520
Animated summary of the cycles of day and night and of the seasons, which shows the child how the movements of the earth and the moon cause these phenomena. Also several views of the sun, stars, and planets, taken through the largest telescope in existence
ei Guide

- Eclipse of the sun.** 8min 16-si-\$10.95 35-si-f-nf-apply Bray 520
Animated technical drawings show the cause of an eclipse and also what it looks like. Shows details of the eclipse of June,

1918—path of the moon's shadow, appearance of sun approaching complete eclipse and during the brief moment of totality with the corona
Jh

- Motion picture journey to the moon.** 15min 16-si-\$30 35-si-nf-\$70 1933 Univ. of Chicago press 520
Produced by the McMath-Hulbert observatory of the University of Michigan
A panoramic picture of the moon at first quarter. Sunrise and sunset phenomena in lunar craters on an enlarged scale and an occultation of Delta Capricorni by the moon

- Sky.** (Nature study ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 520
By G. Clyde Fisher, of the American museum of natural history
"The Ancients pictured the sky as the place where they could see their heroes; how moon makes its own quarters; a simple telescope; one of the largest telescopes in the world, at Lick Observatory; an imaginary trip to the moon; what the moon is like; functions of the various planets." Iowa state college
ei-Jh Guide

- Solar eclipse of August 31, 1932** 10min 16-si-\$30 35-si-nf-\$60 1933 Univ. of Chicago press 520
Produced by the McMath-Hulbert observatory of the University of Michigan
The actual progress of the moon across the sun is shown by stop-motion photography. When the eclipse is complete, the corona makes a striking and beautiful picture. A special shot of the solar prominences at the time of the eclipse is shown on an enlarged scale

- Solar phenomena.** 1R 16-si-\$30 35-si-nf-\$50 Univ. of Chicago press 520
Made in cooperation with McMath-Hulbert observatory of the University of Michigan
"This film shows a short-lived solar bomb which is a mass of incandescent hydrogen ejected from a sun-spot. Prominences many thousands of miles high and thousands of miles across are also shown in motion." Producer

- Tides and the moon.** 6min 16-si-\$8.90 35-si-f-nf-apply Bray 520
Photography and animated drawings show the pulling forces of moon rays; high tide and low tide; difference between spring and neap tide

530 PHYSICS

- Energy and its transformations.** (Univ. of Chicago physical science ser.) 10min 16-sd-\$50 35-sd-nf-\$100 1933 Erpi 530
By Dr Harvey B. Lemon and Dr Hermann I. Schlesinger of the University of Chicago
"Potential, kinetic and radiant energy, as manifested in mechanical, chemical, and thermal form, are vividly illustrated and explained. The principle of conservation of energy, and the concepts 'power' and 'work' are demonstrated in experiments. The film closes with a review of present and future sources of energy." Producer
Jh-sh Guide

533 Air

Air. (General science ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 533

By Morris Meister, head of science department, Haaren high school, New York city

"Physical properties of air, and their utilization by people in the home, in business, and in social life." Texas el-jh-sh Guide

Air pressure in which we live. 5min 16-si-\$6.67 35-si-f-nf-apply Bray 533
"Laboratory experiments demonstrate atmospheric pressure." Producer

Atmospheric pressure. 15min 16-si-\$24 1928 Eastman 533

"Unbalanced air pressure; operation of the vacuum cleaner, effect of atmospheric pressure upon a vacuum; Magdeburg hemisphere demonstration; operation of a common lift pump; pressure variations in a valley and on a mountain top; causes of land and sea breezes." Weaver

Jh-sh-c Guide

Liquid air. (no. 51) 1R 16-si-loan 35-si-nf-loan General electric 533

"Shows the production of liquid air and a number of laboratory experiments that demonstrate its properties and its effects on various substances." Producer

Liquid air. (no. S-2212) 1R 16-sd-loan 35-sd-f-nf-loan General electric 533

"Ellis Manning, of the G-E Research Laboratory, describes the properties of liquid air and demonstrates its effect on various familiar objects. Close-up photography gives a . . . portrayal of the behavior of this super-cold fluid." Producer sh-c-trade

534 Sound

Fundamentals of acoustics. (Univ. of Chicago physical science ser.) 10min 16-sd-\$50 35-sd-nf-\$100 1933 Erpi 534

By Dr Harvey B. Lemon and Dr Hermann I. Schlesinger of the University of Chicago, Dr Harvey Fletcher of Bell telephone laboratories, and Dr Donald MacKenzie of Electrical research products inc.

"The phenomenon of hearing and the modification of sound between the source and the hearer are emphasized in this film. The specific elements explained or demonstrated are velocity of sound, refraction, range of hearing, lowering intensity, attenuation in air, eliminating high and low frequencies, reverberation and focussing of sound. Extensive use is made of animation and sound effects. The film concludes by indicating advances in communication which have resulted from combining our knowledge of sound and of electricity." Producer

Jh-sh Guide

Sound waves. 1R 16-si-apply Edited pictures 534

Originally produced by Urban
"Study of the properties and use of sound waves." Producer

Sound waves and their sources. (Univ. of Chicago physical science ser.) 10min 16-sd-\$50 35-sd-nf-\$100 1933 Erpi 534

By Dr Harvey B. Lemon and Dr Hermann I. Schlesinger of the University of Chicago, Dr Harvey Fletcher of Bell telephone laboratories, and Dr Donald MacKenzie of Electrical research products inc.

"Demonstrates and explains several types of sound sources. The transmission of sound waves through the air is . . . visualized. The characteristics of sound waves, such as frequency, amplitude, wave length, fundamentals, harmonics, are . . . explained visually with acoustic accompaniment. The highspeed camera, animation, sound effects, and an oscilloscope are used to clarify these phenomena of sound." Producer Jh-sh-c Guide

535 Light

Behavior of light. 15min 16-si-\$24 1930 Eastman 535

"Introduces the subject of light. Presents the ideas of transmission, shadows, and eclipses. Explains the formation of images in plane, convex, and concave mirrors. Demonstrates the cause of refraction. Illustrates dispersion, color, and the rainbow." Producer

sh-c Guide

535.8 Practical applications. Lenses

Eyes of science. 45min 16-si-loan 35-si-nf-loan 1930 Bausch & Lomb 535.8

"Galileo with his early telescope; Leeuwenhoek and his simple microscope; the arrangement of lenses and tubes which have given the scientists the super-eye; the spectroscope; ophthalmoscope; binoculars; motion picture machines." Colorado Jh-sh-c Guide

Lenses. 15min 16-si-\$24 1931 Eastman 535.8

"Emphasizes those phases of lens refraction admirably shown by animation: action of a converging lens, real and virtual images, changes of magnification; effect of diverging lens and formation of the virtual image; construction and explanation of achromatic lenses." Producer

Jh-sh Guide

Optical instruments. 15min 16-si-\$24 1931 Eastman 535.8

"Utilizes the principles of reflection and refraction and applies them to optical devices. The film units are Mirrors; The Eye and Spectacle Lenses; The Camera; Stereopticon and Moving Picture Projectors; Microscopes and Telescopes." Producer Jh-sh Guide

536 Heat. Fire

Experiments in conduction of heat. 5min 16-si-\$5.26 35-si-f-nf-apply Bray 536

"Laboratory experiments; boiling water in paper tea-kettle over flame, etc." Producer

Fire and heat. (General science ser.)
12min 16-si-\$24 35-si-nf-\$80 prior 1927
DeVry 536

By Morris Meister, head of science department, Haaren high school, New York city

"A forest fire, an oil fire, oxidation, the kindling point, blast furnace, purifying steel, radiation, poor and good conductors of heat." Weaver

Jh-sh Guide

Fire making. 15min 16-si-\$24 1930 Eastman 536

"Especially suitable for science classes. Why does a fire start? What is a flame? What becomes of substances when they burn? The answers to these and numerous other questions on the phenomenon of combustion may be found in a study of this film. Fuel and oxygen. Kindling points. Matches. Making modern matches." Indiana

Jh-sh Guide

537 Electricity

This number is used for theoretical aspects of electricity including experiments for physics classes. For practical applications and engineering aspects see 621.3

Electrostatics. (Electricity and magnetism ser.) 15min 16-si-\$24 35-si-nf-\$55 1922 Soc. for visual educ. 537

By Dr Harvey B. Lemon, of the University of Chicago

"That part of electricity that deals with phenomenon of static electricity . . . Will . . . enable the student to see the connection of electrostatics with other phases of electricity." Iowa univ.

Guide

Electrostatics. (Univ. of Chicago physical science ser.) 10min 16-sd-\$50 35-sd-nf-\$100 1933 Erpi 537

By Dr Harvey B. Lemon and Dr Hermann I. Schlesinger, of the University of Chicago

"Deals with static electricity as fundamental to an understanding of the modern theories of electricity. It explains how positive and negative electrification are produced and by animated drawings shows the part played by insulators and conductors. Natural photography supplemented by animation gives an exposition of the movement of charges in the electroscope, the Compton electrometer, the static machine, and Nature's display of static electricity, lightning." Producer

Jh-sh Guide

High frequency currents. (Electricity and magnetism ser.) 15min 16-si-\$24 35-si-nf-\$55 1922 Soc. for visual educ. 537

By Dr Harvey B. Lemon, of the University of Chicago

Performance of both elementary and advanced experiments in the Ryerson physical laboratory at the University of Chicago

sh Guide

537.5 X-rays

Cathode-ray tube. 1/2R 16-si-loan 35-si-f-nf-loan General electric 537.5

"Dr. W. D. Coolidge, Director of the G-E Research Laboratory, describes the construction and operation of a large cathode-ray tube and shows the effects of cathode rays on various minerals." Producer

Jh-sh-c-trade

Revelations by X-ray. 1R 16-si-loan 35-si-f-nf-loan General electric 537.5

"A few essential operations in the manufacture of the Coolidge tube, and by animated drawings the electrical action in producing X-Rays is visualized so clearly that a child can understand the subject. A few demonstrations follow showing the power of X-Rays to reveal the inner structure of opaque objects, such as wood, steel, cast iron, and even the hidden wheels of a clock. Scenes which show the action of the bones of the hand, wrist, elbow, knee, ankle, and foot, also views of the teeth, concluding with an X-Ray view of the entire body." Indiana

"[Useful in] physics, biology and general science [classes]." Am. museum of nat. hist.

sh

538 Magnetism

Early experiments of Michael Faraday. 1R 16-sd-loan 35-sd-f-nf-loan General electric 538

"Sir William Henry Bragg reenacts Michael Faraday's early experiments in magnetism with Faraday's original equipment. This picture . . . was made in England." Producer

sh-c

Electromagnetic induction. (Electricity and magnetism ser.) 15min 16-si-\$24 35-si-nf-\$55 1922 Soc. for visual educ. 538

By Dr Harvey B. Lemon, of the University of Chicago

Performance of both elementary and advanced experiments in the Ryerson physical laboratory at the University of Chicago

sh Guide

Electromagnetism. (Electricity and magnetism ser.) 25min 16-si-\$45 35-si-nf-\$90 1922 Soc. for visual educ. 538

By Dr Harvey B. Lemon, of the University of Chicago

"Shows the relation of magnetism and electric currents . . . Is also intended to make clear how the phenomenon of electro-magnetism is made use of in practical problems of everyday life, and to explain the action of a few of the important electro-magnetic devices." Iowa univ.

sh-trade Guide

Magnetic effects of electricity. 15min 16-si-\$24 1930 Eastman 538

"Magnetism and magnetic induction with their applications to the electromagnet, the electric bell, the ammeter, the voltmeter, and the motor—the theory of permanent magnetism—an explanation of terrestrial magnetism." Producer

Jh-sh-c Guide

Magnetism. (Electricity and magnetism ser.) 15min 16-si-\$24 35-si-nf-\$55 1922 Soc. for visual educ. 538

By Dr Harvey B. Lemon, of the University of Chicago

Elementary and advanced experiments at Ryerson physical laboratory, University of Chicago

sh-trade Guide

Story of the magnet. 1R 16-si-apply Edited pictures 538

Originally produced by Urban

Experiments showing numerous uses of magnetism

539 Molecular physics

Molecular theory of matter. (Univ. of Chicago physical science ser.) 10min 16-sd-\$50 35-sd-nf-\$100 1932 Erpi 539

By Dr Hermann I. Schlesinger and Dr Harvey B. Lemon of the University of Chicago

"Evidence of molecular activity in gases, liquids, and solids is presented in support of the molecular theory of matter. Animated drawings explain such phenomena as the diffusion of gases, the evaporation of liquids, and the transformation of liquids into solids, in terms of the theory. Among the features of the film are the machine gun illustration of the force exerted by molecules in motion, and the microscopic view of the Brownian movement, direct evidence of molecular motion." Producer

Jh-sh-c Guide

539.7 Radioactivity

Radioactive rays. 1R 16-sd-loan 35-sd-f-nf-loan General electric 539.7

"Technical study of the disintegration of certain minerals, complete with diagrams and experiments, presented by Dr. C. W. Hewlett of the G-E Research Laboratory." Producer

540 CHEMISTRY

Beyond the microscope. 1R 16-si-loan 35-si-f-nf-loan General electric 540

"This reel visualizes and explains the decomposition of water into hydrogen and oxygen, the union of these gases in combustion, their atomic structure, and their combination to form a molecule of water." Weaver sh

Chemistry of combustion. 1R 16-si-apply Edited pictures 540

Originally produced by Urban

"A series of chemical experiments in the phenomena of oxidation and combustion—too dangerous for performance in the average laboratory." Indiana

Oxidation and reduction. (Univ. of Chicago physical science ser.) 10min 16-sd-\$50 35-sd-nf-\$100 1932 Erpi 540

By Dr Hermann I. Schlesinger and Dr Harvey B. Lemon of the University of Chicago

"The simultaneous process of oxidation and reduction is presented first by burning phosphorus and rusting iron under experimental conditions. Mercury rust is then decomposed to discover the component of air responsible for oxidation. Other examples of oxidation and oxidizing agents follow. The process of reduction is strikingly presented in the operation of the blast furnace, magnesium burning in dry ice, and thermite welding. Everyday examples of oxidation and reduction conclude the picture." Producer

Jh-sh-c Guide

Spectacular experiments in crystallization. 8min 16-si-\$10.67 35-si-f-nf-apply Bray 540

"The growing of crystals of ammonium of zinc, fused salicin, and other chemicals, under the microscope." Producer

550 GEOLOGY

551 Physical geography

The earth. (General science ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 551

By Morris Meister, head of science department, Haaren high school, New York city

"Relations to other planets, the sun, eclipse, corona, the earth's surface, cold formation." Texas

el-Jh Guide

Earth's rocky crust. (Harvard univ. natural science ser.) 10min 16-sd-\$50 35-sd-nf-\$100 1931? Erpi 551

"Presents physiography in its dynamic aspects, and aims to show that the same forces which have shaped the earth as it is today are still at work further changing it. In the slower processes, this effect is obtained by the use of models and diagrams, which show a thousand year process taking place in a few seconds. The part the Water Cycle plays in shaping the earth is emphasized. The formation of igneous, sedimentary, and metamorphic rocks is clearly illustrated by models and animated diagrams. The ceaseless action of those forces which cause mountains to crumble and become soil are plainly shown." Harvard

Jh-sh-c Guide

Our earth. (Nature study ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 551

"A study of the forces which are building up or tearing down the earth's surface, and a study of weather and weather forecasting." Iowa univ.

el-Jh Guide

551.2 Earthquakes. Volcanoes

Earthquakes. (Harvard Pathe ser.) 15min 16-si-\$24 35-si-nf-\$60 1928 Films of commerce 551.2

Produced by Pathe

"Damage of the great Japanese earthquake; the quake at Santa Barbara; tectonic earthquakes; rocks and how they are elastic; seismographs for detecting earth shocks; methods of recording earthquakes." Iowa state college

Jh-sh

Formation of volcanoes and geysers. 11min 16-si-\$20 35-si-f-nf-\$40 1922 Soc. for visual educ. 551.2

By W. W. Atwood

"In addition to the diagrammatic method, motion pictures are shown of volcano eruptions and of geysers. Both subjects are visualized step by step." Producer

Guide

Kilauea—the house of everlasting fire. 8min 16-si-\$8.52 35-si-f-nf-apply Bray 551.2

"Pictures of the great volcano of Hawaii; four miles across the crater to the rim of the fire cup; one hundred foot climb to photograph lava boiling. . . Near views of the river of fire flowing beneath." Producer

Kilauea volcano, Hawaii. 15min 16-si-\$20
35-si-nf-\$75 1924? Baker 551.2

This was taken over a period of years beginning in 1918 and ending with the big explosive eruption of 1924. It shows the fern-bowered approach, steam clouds which rise a mile high, a view into the pit, and the lava streams and foundations at night in red color

Volcanoes. 15min 16-si-\$24 1931 Eastman 551.2

"Quiet overflow types are contrasted with volcanoes having explosive eruptions. Products of volcanoes and the life history of a volcanic cone. Subjects include Hawaiian volcanoes, the Palisades, eruptions of a South American volcano and Mt. Vesuvius, and a recent cinder cone of Lassen Peak." Producer

"Unusually striking picture, showing formation of volcanoes by animated drawings, and by means of telephotography, volcanoes in eruption, and a seething crater a mile or more in diameter, in colors." Minnesota Guide

Volcanoes. (Harvard Pathe ser.) 1R 16-si-\$24 35-si-nf-\$60 1928 Films of commerce 551.2

Produced by Pathe

"Study of the ways in which volcanic activity is changing the surface of the earth. The explosive and the quieter types of eruption are contrasted. Eruptions of Vesuvius, Etna, Kilauea, and other active volcanoes." Indiana Guide

Volcanoes in action. (Univ. of Chicago physical science ser.) 10min 16-sd-\$50 35-sd-nf-\$100 1935 Erpi 551.2

Supervised by Dr Carey Croneis

"Presents by photography, evidences of past volcanic action. Animation, combined with photography, explains many of the more important phenomena of volcanism such as dikes; batholiths; sills; laccoliths; metamorphism; and products of volcanism including lava, cinder, and ash; types of volcanic cones; and the distribution of active and inactive volcanoes throughout the world." Iowa univ.

Jh-sh-c Guide

What causes earthquakes. 15min 16-si-\$19.66 35-si-f-nf-apply Bray 551.2

"Nature, source and action of earthquakes according to scientific theory. Japanese Earthquake of 1923 is shown. Study of the tidal wave is explained. Pictures showing devastation wrought by earthquakes." Producer

551.3 Erosion

CCC fights erosion. 1R 16-sd-loan 35-sd-loan 1935 U.S. agric. 551.3

A Forest service film

"The Civilian Conservation Corps at work on gully erosion control." Producer Jh-sh-c

Cycle of erosion. (Harvard Pathe ser.) 15min 16-si-\$24 35-si-nf-\$65 1929? Films of commerce 551.3

Also available in a version edited especially for elementary schools (1R 16-si-\$24 35-si-nf-\$60)

Cycle of erosion for individual streams and for broad regions. The progressive development of valleys and regions through the stages of youth, maturity and old age.

Selected landscapes are presented and classified so as to aid the student in his recognition of erosion stages in his own field observations

Formation of soil. 15min 16-si-\$24 1933 Eastman 551.3

"Introduces the student to the rock-soil cycle by means of demonstrations, animations, and actual photography. The story of the disintegration of rock includes the work of the weather, stream erosion and transportation, glaciers, wind and waves, rain and air, and plants and animals." Producer Jh-sh-c Guide

Wearing away of the land. (Harvard univ. natural science ser.) 10min 16-sd-\$50 35-sd-nf-\$100 1931 Erpi 551.3

"Many forces wear away the land, but what is worn away in one place goes to build up in another. Graphically, this film presents another of the basic geological facts, driving its points home with scenes taken all over the world, where there were formations which succinctly told a story. How rocks are decomposed; how caves and sink holes are made; and how glaciers are formed and the work they do; how blowing sand erodes the surface of the earth; and how the waves are reshaping the coast line, all these are clearly illustrated." Harvard Jh-sh-c Guide

Work of the atmosphere. 11min 16-sd-\$50 35-sd-nf-\$100 1935 Erpi 551.3

This film shows how the atmosphere plays a part in altering the earth's surface thru the disintegration of rocks, erosive action of wind and sandblast action on rocks and trees. It shows the formation of rain and how the atmosphere works with surface water, how it is necessary to the formation of soil and in fact for life

sh-c Guide

551.31 Glaciers

Geological work of ice. (Univ. of Chicago physical science ser.) 11min 16-sd-\$50 35-sd-nf-\$100 1935 Erpi 551.31

Considers gradational work of ice in fracturing of rock in freezing weather. By means of animation gives the story of glaciers showing advances and retreats of vast continental glaciers of our continent in past geological ages

Jh-sh Guide

Glaciers. (Harvard Pathe ser.) 15min 16-si-\$24 35-si-nf-\$60 1929 Films of commerce 551.31

Produced by Pathe

Classification, modes of origin, motion and characteristics of existing glaciers as well as work they are doing in changing the landscape from the standpoint of erosion and deposition sh

Study of a mountain glacier. 14min 16-si-\$24 35-si-nf-\$50 1921 Soc. for visual educ. 551.31

"Dr. W. W. Atwood appears in person before a blackboard to tell us how a glacier begins and grows. Step by step he pictures, in graphic chalk diagrams, snow gathering high among the mountains, its weight causing ice to form, and the moving mass of ice making its slow way down the mountain valley. Magnificent scenes follow each point, showing parallel stages in glacier formation today. The

Study of a mountain glacier—Continued
glacier is shown reaching the sea, where the ends break off and float away as icebergs. Other drawings, motion picture closeups and panoramas visualize the origin of moraines, crevasses, 'ice tables,' glacial rivers, glacial valleys, etc." Producer sh Guide

551.36 Coast changes

Shore deposits. (Harvard Pathe ser.)
15min 16-si-\$24 35-si-nf-\$60 1929?
Films of commerce 551.36

Produced by Pathe

"How incessant pounding of waves against a shore is an important factor in shaping shore lines is portrayed in this film. The picture shows how the nature of the bordering cliffs determines the character of beach material. Excellent examples of shore formations in this film are those of Plymouth, Massachusetts; Nahant, Massachusetts; Boston Harbor; and Rio de Janeiro." Indiana

jh-sh

Shore lines and shore development. (Harvard Pathe ser.) 15min 16-si-\$24 35-si-nf-\$60 1929 Films of commerce 551.36

Produced by Pathe

"A study of the forces which are shaping the coast lines of the continents and the shores of lakes. The picture considers the two main types of waves commonly developed in the sea, and shows the work which they accomplish in changing the shore line. Both kinds of work accomplished by waves and currents, erosion and deposition, are shown by the resulting beaches, cliffs, caves, bars, spits, etc. The fury of storm waves is emphasized." Distributor jh

Study of shore features—bold shore. 10min 16-si-\$20 35-si-f-nf-\$40 1921 Soc. for visual educ. 551.36

"Designed to show how, by the action of water, rough and rocky shore lines are given greater and more magnificent indentations. Dr. W. W. Atwood draws a cross-section of sea level, waves and sea cave. He shows how the under-cut shore above the cave collapses; how waves sometimes cut through weak places in the rock to form arches. Motion pictures show a panoramic view of an arched rock near shore. The formation of gravel bars and land-tied islands is traced, and a fjorded coast-line is pictured." Producer

Guide

Study of shore features—low shore. 12min 16-si-\$24 35-si-f-nf-\$50 1921 Soc. for visual educ. 551.36

"Designed to illustrate how wave-action gradually changes a low shore line from a shore of bays and indentations to one of comparatively smooth lines. Dr. W. W. Atwood, in one of his famous 'chalk talks,' visualizes the work of the sea in building banks, reefs, bars and capes. Such splendid harbors as those of Provincetown, New York, Presque Isle Bay on Lake Erie and Duluth on Lake Superior, are shown to be the result of the building of sand hooks." Producer

Guide

Work of waves. 15min 16-si-\$24 35-si-nf-\$60 1929? Films of commerce 551.36

How waves change the coast lines by cutting and grinding the rocks; the formation of beaches, islands, sandbars, cliffs, bays. Movement of water; currents in storm; littoral currents
el-jh

551.37 Aerial erosion

Work of the wind. 15min 16-si-\$24 35-si-nf-\$60 1929? Films of commerce 551.37

"Wind forming sand dunes, changing shape of canyon walls; enveloping forests, farms, destroying houses, boring into wooden headstones; sand shapes formed by wind. The effect of wind on trees and their foliage." Producer el-jh

551.4 Surface features of the earth

Mountain building. (Univ. of Chicago physical science ser.) 11min 16-sd-\$50 35-sd-nf-\$100 1935 Erpi 551.4

Supervision of Dr Carey Cronels

"This film, by employing animation and models, reenacts significant events in geological history pertaining to mountains and movements of the earth's crust. We can actually see and experience the subsidence of the mouth of the Hudson River to form the present harbor of New York; the events that have preceded in the story of the Appalachian Mountains; and the story of the famous and spectacular Lewis Overthrust in the Rocky Mountains. The film opens with a photographic survey of the type of evidence which constitutes the basis of these interpretations, and closes with a consideration of the significance of these phenomena to mining and structural engineering." Iowa univ.

sh-c Guide

551.44 Caves

Caves in limestone and coral growth. 15min 16-si-\$24 35-si-nf-\$55 1922 Soc. for visual educ. 551.44

"How water seeping through the earth's crust wears away the softer parts of some ledge of rock many feet below the surface. In this way underground tunnels and caves are made. Then, step by step, the diagrams picture how constant dripping of water from above, filled with lime particles, causes stalactites and stalagmites to form. After a time some of these unite, forming columns that divide the cave into rooms. What coral is, where it grows, and the kind of land it helps to make, are shown by Dr. Atwood in this . . . chalk talk. He explains the conditions most favorable for coral growth, the origin of 'fringing reefs,' 'barrier reefs,' 'circle reefs,' the effects of a raised sea-level, etc. The tremendous size of some of these circle reefs is . . . visualized." Producer jh-sh Guide

551.48 Rivers

Sculpture of the land by rivers. (Harvard Pathe ser.) 15min 16-si-\$24 35-si-nf-\$60 1929 Films of commerce 551.48

Produced by Pathe and is a companion to "Cycle of Erosion," class 551.3

"Study of the erosion of the land surface by running water. This picture accom-

Sculpture of the land by rivers—Continued

plishes two things; first, gives a good conception of the slow, but relentless wear of the land surface by running water, as seen in the case of Ausable Chasm, the Dales of the Wisconsin River and the Grand Canyon; and second, shows, by means of an experiment on a small scale in the laboratory and by views of several streams just how a river does its work, eroding the land and transporting the debris." Distributor

Jh-sh Guide

Work of rivers. 14½min 16-si-\$24 35-si-nf-\$55 1921 Soc. for visual educ. 551.48

A chalk talk by Dr W. W. Atwood

"Illustrating the evolution of river valleys through youth, maturity and old age . . . Shows how through thousands of years rivers convert the land into a succession of broad valleys. At first the valleys are steep and sharply cut. Diagrams illustrate how young valleys like the Royal Gorge of the Arkansas and the Grand Canyon of the Colorado were formed, and then the screen shows them in motion picture. As maturity approaches, the steep walls become rounded slopes. In old age the valley is broad and low, the home of a slow, winding stream." Producer

Jh Guide

Work of rivers. (Univ. of Chicago geology ser.) 11min 16-sd-\$50 35-sd-nf-\$100 1935 Erpi 551.48

By Dr Carey Croneis, professor of geology, University of Chicago

"The erosion cycle of water on the earth's surface. The main story is introduced with a brief portrayal of the water cycle in nature. A comprehensive presentation of the cycle of a river from its very beginning to old age follows. The main story is integrated by motion pictures, specially taken for the picture, presenting examples from many parts of the country. Models and animated cartoons are employed to explain such special features as Niagara Falls, deltas, meanders, ox-bow lakes, rejuvenated rivers, lakes, water gaps, and sand bars." Producer

sh-c Guide

Work of running water. (Harvard univ. natural science ser.) 10min 16-sd-\$50 35-sd-nf-\$100 1931 Erpi 551.48

"The greatest force in wearing away of the land is that of running water. Models and scenes from all parts of the world show how running water wears away the land. Many picturesque evidences of erosion are analysed. An unusually complete sequence on the formation of deltas and flood plains, splendidly illustrated by aerial pictures of the Mississippi bottom lands, and sand table models. The way in which rivers straighten their courses and how great canyons are formed are also clearly shown." Harvard

Jh-sh-c Guide

Work of the river. 15min 16-si-\$24 35-si-nf-\$60 1929? Films of commerce 551.48

Produced by Educational films corporation of America

"Erosion by water considerably more powerful than by any other element. Navigation along Columbia River; salmon fisheries; salmon jumping falls." Distributor

ei-Jh

551.49 Ground water

Ground water. (Univ. of Chicago physical science ser.) 11min 16-sd-\$50 35-sd-nf-\$100 1935 Erpi 551.49

"Story of ground water . . . indicates its importance in changing the crust of the earth, its part in producing spectacular geological phenomena, and its direct significance to mankind. The film brings to our attention many phenomena that take place constantly below the surface of the earth, often without making themselves known. Artesian systems, springs, water tables, caves, wells, and artesian wells are explained by animation and illustrated photographically. Other more spectacular phenomena such as geysers, roaring springs, hot springs, sink holes, petrification, concentration of useful minerals, and geode fillings are explained and illustrated by the outstanding examples to be found in this country." Iowa univ.

Jh-sh Guide

Work of underground water. (Harvard Pathe ser.) 15min 16-si-\$24 35-si-nf-\$60 1929? Films of commerce 551.49

Produced by Pathe

"A study of the geologic work of underground water and the expressions of the result on the surface. Caves, sink holes and natural bridges sculptured by ground water because of its ability to dissolve mineral matter, as well as springs, artesian wells and geysers are considered. Animated drawings are extensively used to explain these phenomena. Actual photographs from the Great Diamond Cave of Arkansas show the results of deposition." Distributor

Jh-sh

551.5 Meteorology

Back of the weather forecast. 2R 16-si-loan 35-si-nf-loan 1931 U.S. agric. 551.5

A Weather bureau film

"Shows how weather information is obtained and how forecasts are made after the information has been assembled and plotted on weather maps." Producer

Birth of a tornado. 6min 16-si-\$8.40 35-si-f-nf-apply Bray 551.5

"Causes and effects of tornadoes; illustrated with . . . views by actual photography, combined with animated drawings." Producer

Clouds. 1R 16-si-loan 35-si-nf-loan 1927 U.S. agric. 551.5

A Weather bureau film

"Important types of clouds, and the significance of some of them; scenes from numerous localities." Producer

"Of general interest." Indiana

Jh

Exploring the upper air. 1R 16-si-loan 35-si-nf-loan 1925 U.S. agric. 551.5

A Weather bureau film

"Flights by Weather Bureau meteorologists in airplanes, dirigibles, and free balloons to study upper-air conditions for weather forecasting." Producer

Fair weather clouds. 15min 16-si-\$24 35-si-nf-\$60 1929? Films of commerce

551.5

Produced by Educational films corporation of America

"Cirrus, cumulus and cirro-cumulus clouds—how they look and what they mean. The nature of fog. The effect of temperature on clouds." Distributor

Foul weather clouds. 15min 16-si-\$24 35-si-nf-\$60 1929? Films of commerce

551.5

Produced by Educational films corporation of America

"Nimbus, cumulo-nimbus, stratus and 'undecided' clouds; what they are and do. Also the fogbank." Distributor

Mysteries of snow. 12min 16-si-\$16.66 35-si-f-nf-apply Bray

551.5

"Snow scenes and close-ups of snow flakes, showing many intricate patterns of feathery and solid flakes." Missouri

Watching the weather above. 2R 16-si-loan 35-si-nf-loan 1925 U.S. agric.

551.5

A Weather bureau film

"Aerial activity, including the army, the navy, the air mail service, forest fire airplane patrols, and airplanes in insect control; importance of weather forecasting to successful aviation; how observations are made for flying weather forecasts. Of general interest." Indiana

Water cycle. 15min 16-si-\$24 1928 Eastman

551.5

"Graphic presentation of the continuous circulation of water, from earth to sky and back to earth. Examples of evaporation, condensation, precipitation, storage, and run-off are given." Producer

Jh-sh-c Guide

Weather forecasting. 15min 16-si-\$24 1931 Eastman

551.5

"Making observations, studying the sky, the barometer, maximum-minimum thermometer, hygrometer, anemometer, the rain gauge, sunshine recorder, self recording instruments. The weather map, charting observations, isotherms, isobars. Forecasting, reading the weather map, animated drawings show how the high and low pressure areas marked on the map move across the country and interspersed scenes show various kinds of weather produced, various means of reporting weather conditions." Ohio

Jh-sh Guide

551.9 Agents of geologic work

Atmospheric gradation. (Univ. of Chicago geology ser.) 10min 16-sd-\$50 35-sd-nf-\$100 Erpi

551.9

By Dr Carey Croneis, professor of geology, University of Chicago

"Reveals the numerous ways in which the atmosphere plays a part in altering the earth's surface. . . . Shows how temperature variations result in the disintegration of rocks by spalling, and how temperature variation together with chemical action of the atmosphere results

in another type of disintegration called exfoliation. The action of the wind in eroding rocks is explained by animation and photography. The movement of sand, loess, dust, and volcanic dust over great distances on the earth's surface is . . . visualized." Producer

Jh-sh-c Guide

553 Economic geology

Sulphur. 30min 16-si-loan 35-si-nf-loan 1934 Bur. of mines

553

Produced by Douglas D. Rothacker and made in cooperation with Texas gulf sulphur company

"Reel one shows by animated photography how sulphur is melted 1,000 feet below the earth's surface by superheated water and is forced by compressed air to the surface where it is run into huge vats and solidified; also shows building of vats and blasting and loading of sulphur into cars. Reel two shows how sulphur is used—for drugs, fumigating and bleaching, in the preparation of dried fruits, in the rubber industry, in explosives, in the paper industry and for sulphuric acid. [Useful in] geography, chemistry, general science and commercial geography [classes]" Am. museum of nat. hist.

el-Jh-sh

553.2 Coal

See Coal mining, 622.33. For the sake of keeping all material about coal together, the number 553.2 has not been used.

For Petroleum see 665.5

553.4 Metals

For description and metallurgy of the various metals see subdivisions of 669

553.5 Building stones

Limestone and marble. 15min 16-si-\$24 1927 Eastman

553.5

"Demonstrates the relationship between limestone, chalk, and marble—quarrying, carving, and use of natural limestone—manufacture of artificial limestone (cement)—quarrying of marble." Producer

el-Jh-sh-c Guide

Sand and clay. 15min 16-si-\$24 1923 Eastman

553.5

"In conjunction with . . . 'Limestone and Marble,' [listed above] and . . . 'Formation of Soil' [class 551.3] this film should give the child an understanding of the rock-soil cycle in nature and its commercial significance. It shows the weathering qualities of granite, and the relationship between granite, quartz and sand. Artificial sandstone blocks are made, natural sandstone is quarried, cut into blocks, and fashioned into grindstones. Other processes such as the making of brick, tile, and pottery are shown. The film has been divided into the following units: sand, glass, clay." Iowa univ.

el-Jh-sh-c Guide

553.6 *Earthy economic minerals.**Asbestos*

Asbestos. 15min 16-si-loan 35-si-nf-loan
prior 1927 Bur. of mines 553.6

Made in cooperation with the Johns-Manville corporation

"Shows the blasting of asbestos-bearing rock, clobbering for the best fibers, crushing the fibers, shipment to factory and the making of many useful articles from asbestos. [Useful in] general science and commercial geography [classes]" Am. museum of nat. hist.

560 PALEONTOLOGY

Digging up the past. (Seeing Canada ser.)
12min 16-si-\$11.58 35-si-nf-apply Canadian gov't. 560

"Showing the Badlands of the Red Deer Valley, Alberta, the most prolific field in the world for Palaeontological research, and how dinosaurs are located and secured. The film also depicts the work of assembling the fossilized bones of prehistoric monsters at the Royal Victoria Museum, Ottawa." Producer

"[Useful in] biology, nature study and physiography [classes]" Am. museum of nat. hist. Jh-sh

570 BIOLOGY

Four seasons. 4R 16-si-apply 35-si-nf-apply Inst. cinema serv. 570

A series of four one-real subjects on spring, summer, autumn and winter

"The first breath of animal and plant life in the Spring shows in the budding trees, the awakening woodchuck, the buck's shedding of his antlers, the birth of fawns. Summer brings trees in full bloom, Autumn sends birds on their flight to warmer climes, Winter ushers in a snow-covered world,—thus the cycle of the seasons is completed." Producer Jh-sh

571 Archeology. Prehistoric and primitive man

Human adventure. 75min 16-sd-apply 35-sd-nf-apply 1934 Shields 571

Produced by the Oriental institute of the University of Chicago with the technical assistance of Erpi picture consultants, inc.

Scientific supervision by Dr James Henry Breasted, Director of the Oriental institute of the University of Chicago. Story written and told by Charles Breasted

"A partial film record of the institute's fourteen archaeological expeditions in Persia, Palestine, Syria, Anatolia, Egypt and Iraq . . . It would be a person with little imagination who could sit unmoved as loose-robed workmen's picks force back the earthy leaves of history and turn up the precious relics of long-dead civilizations—weapons made by men of the Stone Age, grains of Egyptian wheat that were sold in Joseph's time, the stables of King Solomon, the harem of Darius, the great obelisk of Persepolis, its lofty towers, the tablet of King Sargon on which was imprinted the impertinent footprints of a lowly mongrel." N.Y. Times Jh-sh-c Guide

Looking back through the ages. 1¼R 16-si-\$8.65 35-si-nf-\$29.37 1935 National park serv. 571

This film is a continuation of the film "A visit to Mesa Verde national park" listed below

Shows the cliff dwellings and the scientific excavations in more detail. Specimens of actual articles such as sandals and pottery are shown and explained and the restoration process is demonstrated Guide

Visit to Mesa Verde national park. 1¼R 16-si-\$7.98 35-si-nf-\$27.07 1935 National park serv. 571

Made by the Visual Instruction section of the National park service in collaboration with the Office of education

"This beautiful film presents the scenic wonders in 'Mesa Verde.' Many scenes show remains of Cliff Dwellings which are some of the best preserved and most extensive in America." Iowa univ. Guide

573.4 Anthropogeography

People who live at the equator. (World geography ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 573.4

By De Forest Stull, Teachers' college, Columbia university

"Sets forth the conditions of life in the rain-forest and tropical jungle regions of the earth, and shows how man, both native and white, has adapted himself to his environment." Colorado el-Jh Guide

People who live by the sea. (World geography ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 573.4

By De Forest Stull, Teachers' college, Columbia university

"Depicts condition of life in the countries bordering the Mediterranean, shows the influence of the sea upon man; indicates man's use of the great ocean highways; outlines the great epochs in the development of the commerce of the world." Colorado el-Jh Guide

People who live in a crowded valley. (World geography ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 573.4

By De Forest Stull, Teachers' college, Columbia university

Portrays crowded conditions of life on the delta and plain of a great river and points out the influence of isolation on the development of a people el-Jh Guide

People who live in the Arctic. (World geography ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 573.4

By De Forest Stull, Teachers' college, Columbia university

"Icebergs. Eskimos pulling a whale ashore for food and utensils. Tundra. Eskimo children at play. Summer house. Building frame of boat from bone. Skinning seal. Preserving meat. Caribou. Family life. Approach of winter. Gathering fuel. Dog teams. Seals on ice floes. Grinding ice packs. Seal hunt. Walrus. Rounding up caribou herds. Building ice fence and igloos. Meal time. An Arctic storm." California el-Jh Guide

People who live in the desert. (World geography ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 573.4

By De Forest Stull, Teachers' college, Columbia university

"Manner in which man has overcome a hostile desert environment and to what extent this environment has hampered or assisted his physical, mental, and moral development." Iowa univ.

"City and country life along Mediterranean coast of Africa. Negro dwellers of Sudan. Life on desert." California ei-jh Guide

People who live in the mountains. (World geography ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 573.4

By De Forest Stull, Teachers' college, Columbia university

"Contrasting home environment with that of another country, i.e., Switzerland, showing the effect of a mountain environment from the economic and human standpoint." Colorado ei-jh Guide

People who live on a great plain. (World geography ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 573.4

By De Forest Stull, Teachers' college, Columbia university

"Depicts conditions of life on a vast plain of great fertility, the Pampas, and points out the influence of such a region on the development of the people." Colorado ei-jh Guide

People who live through industry. World geography ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 573.4

By De Forest Stull, Teachers' college, Columbia university

"The Rhine River and its tributaries, the Saar and the Ruhr; terraced vineyards; minerals in the valleys; factories in the midst of farms; large cities at river junctions; raw materials and finished manufactured products; the workers' homes; their manner of living." Indiana ei-jh Guide

574 Physiologic biology

Reactions in plants and animals. (Harvard univ. natural science ser.) 11min 16-sd-\$50 35-sd-nf-\$100 1931 Erpi 574

"After first characterizing the concepts of 'stimulus' and 'reaction,' the film presents a study of different types of reactions in plants and animals. Directed reactions in a field of force (tropisms) are studied first; then higher reactions including reflexes and chains of reflexes lead up to a review of nervous system activity. Such reactions as geotropism, phototropism, stereotropism, galvanotropism, and rheotropism are studied in detail. Time-lapse photography is employed to illustrate geotropism (response to gravity)." Producer jh-sh-c Guide

580 BOTANY

Lupins. (Natural history ser.) 10min 16-sd-apply Gaumont British 580

"A general study of the Lupin from seed to seed, etc." Producer Guide

Naturalized plant immigrants. 3R 16-si-loan 35-si-nf-loan 1929 U.S. agric. 580

A Bureau of plant industry film

"Shows important crops established and industries developed by plant introduction and how imported plants are handled to prevent the introduction of plant diseases and pests." Producer

Tropic garden. 2R 35-si-nf-\$150 Harvard 580

"Specimens of plants native to hot climates. The peculiarities of all these are aptly demonstrated by Professor Ames." Massachusetts

"Near Cienfuegos in Cuba, Harvard University maintains a botanic garden. Thirty years ago only two trees relieved the monotony of the plain where the luxuriant tropical garden now flourishes. There are assembled from tropical regions the world over, specimens of plants native to hot climates. There are, among others, the traveler's palm, the banana tree, the sacred lotus of Egypt, the pawpaw, orchids, celba trees." Iowa univ.

Where plants live. 12min 16-si-\$24 35-si-nf-\$50 1920 Soc. for visual educ. 580

Illustrates the different needs of plants as to soil, moisture, air, etc., accounting for the groupings in the United States jh Guide

581 Physiologic botany

Green plant. 15min 16-si-\$24 1933 Eastman 581

"Stresses the fact that living things are dependent for food upon the green plant. The latter's processes of food-making and growth are accurately diagrammed. Sunshine and chlorophyll, water and air, acting jointly, are seen to produce sugar and starch, which are stored in roots, stems, leaves, fruits." Producer jh-sh Guide

Leaves. (Natural science ser.) 10min 16-sd-\$50 35-sd-nf-\$100 1936 Erpi 581

Structure, functions and types of leaves. Shows in detail the parts of a leaf and a cross-section shows the arrangement of cells and veins for the manufacture of food. The actual process of food-making is revealed by animation Guide

Life. (General science ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 581

By Morris Meister, head of science department, Haaren high school, New York city

"This film tells the marvelous story of plant life from the tiny seed to the tall tree. A view of a beautiful river bank overgrown with various forms of plant life introduces the subject and raises the question 'Where do plants come from, and how do they grow?' The question is answered with animated drawings showing germination, and then the life cycle of a single representative plant." Iowa univ. ei-jh-sh Guide

Plant growth. (Harvard univ. natural science ser.) 10min 16-sd-\$50 35-sd-nf-\$100 1931 Erpi 581

"Deals with the growth of plants. The pea is used as an example, and the film presents the complete Life History from the sprouting of the seed to the dispersal of the ripened seeds in the mature plant. The processes of pollination and fertilization are clearly shown by means of photography and by animated diagrams." Harvard ei-jh-sh Guide

Plant life. (Harvard univ. natural science ser.) 11min 16-sd-\$50 35-sd-nf-\$100
1931 Harvard 581

"Presents the chief functions of plant parts, illustrated by means of experiments and animated diagrams. The first part of the film shows the life properties of a plant—food intake, digestion, waste disposal, respiration, photosynthesis, reproduction and growth, and irritability. Then comes a review of plant forms—the algae, fungi, mosses, ferns, conifers, monocots, and dicots. Next, the fundamental organs of a plant are taken up, and finally, by means of experiments and diagrams, the functions of these parts are . . . demonstrated." Producer

sh

Queer diet. (Natural history ser.) 10min 16-sd-apply 35-sd-f-apply Gaumont British 581

"A study of how plants obtain the elements necessary for their existence." Producer

Guide

Roots. (Natural history ser.) 12min 16-sd-apply 35-sd-f-apply Gaumont British 581

Details of the processes of the growth of roots are shown in this film

Guide

Roots of plants. 10min 16-sd-\$50 35-sd-nf-\$100 1931 Erpi 581

"The various forms of plant roots are first presented. Then time-lapse and micro-photography are employed frequently in the remainder of the picture to bring out the interesting processes of growth, structure and other characteristics. The functions of the root-cap and the root-hairs are . . . presented. An experiment in osmosis is demonstrated and . . . explained, followed by an animation of water absorption by the roots." Producer

jh-sh Guide

Seed dispersal. 10min 16-sd-\$50 35-sd-nf-\$100 1931 Erpi 581

"Ways by which seeds of plants are scattered in order to insure the propagation of the species. The methods illustrated include dispersal by the wind, transportation by animals, and forceful propulsion from the seed-case. . . Time-lapse photography. . . Germination of seeds under various conditions. The struggle for survival in the plant world." Producer

jh-sh-c Guide

Seeds and seedlings. 7min 16-si-\$20 35-si-nf-\$30 1920? Scientific film 581

Produced by Charles F. Herm

"Botanical observation illustrating the transformation of seeds to seedlings—bean plants, seeds, etc." Iowa state college

jh-sh

Time-lapse studies of plant growth. 1R 16-si-loan 35-si-nf-loan 1933 U.S. agric. 581

An Extension service film

Flowers opening and seeds germinating. Growth and action not normally visible are shown by time-lapse photography

581.5 Carnivorous and insectivorous plants

Carnivorous plants. 5min 16-si-\$5.57 35-si-f-nf-apply Bray 581.5

How insect-eating plants obtain their prey

Plant traps. 10min 16-sd-\$50 35-sd-nf-\$100 1931 Erpi 581.5

"Carnivorous plants have the unusual characteristics of entrapping and digesting insects and other small animals. The film shows how the pitcher plant lures insects to its trap, where they drown. The sundew, another carnivorous plant, is shown throughout its life cycle. The enfolding of insects by its leaf tentacles is presented . . . by means of time-lapse photography." Producer

583 Flowers

Aristocrats of the flower world. 5min 16-si-\$6.48 35-si-f-nf-apply Bray 583

"Study of orchids; their origin, propagation, and method of obtaining food and water." Producer

Dodder. 10min 16-sd-\$50 35-sd-nf-\$100 1931 Erpi 583

"Entire life story of the dodder, one of the best known of the group of parasitic flowering plants, is shown by means of time-lapse photography, accompanied by an explanatory narrative. Among the more impressive features is the presentation of the dodder twining about the host plant. Animation aids in revealing details in the structure and operation of the suckers. The destructive character of this plant is demonstrated, as well as the beauty of the flowers." Producer

el-jh-sh Guide

Evening primrose, mariposa tulip, Washington lily, hen and chickens, and others. ¼R 16-si-\$7.50 Bell & Howell 583

Produced by Arthur C. Pillsbury

Growth of these flowers shown by time-lapse photography

Flower life in Yosemite national park. 1R 16-si-rent \$1.25 Kodascope 583

By Arthur C. Pillsbury

"The following flowers are featured: Knotwood, Thistle, Tidy Tip, Johnny Jump Up, Mariposa Tulip, Hen and Chickens, Dog Tooth Violet, Prickly Poppy, Monkey Flowers, Fire Weed, Snow Plant (several varieties), Blue Lilacs, White Lilacs, Snow Drops, California Poppy and Milkweed." Distributor

Beautiful pictures of flowers growing in the fields and also close-ups showing the gradual expansion and opening of flowers

Flowers. 7min 16-si-\$20 35-si-nf-\$30 1920 Scientific film 583

Produced by Charles F. Herm

A visualization of the characteristic variation of forms and structure among garden flowers by time-lapse photography. In tint and tone

jh-sh

Flowers at work. 10min 16-sd-\$50 35-sd-nf-\$100 1931 Erpi 583

Animation and time-lapse photography show the parts and the physiology of flowers, types of flowers and methods of pol-

- Flowers at work—Continued** /
 lination. The relation of insects to cross-fertilization is shown. The picture closes by showing how cultivation has modified the form of flowers
 el-jh-sh Guide
- From flower to fruit.** 15min 16-si-\$24 1933
 Eastman 583
 "Remarkable time-lapse motion photomicrography shows the development of the rose, lily, and apple. The opening of a flower; the functions of the sepals, petals, stamens, and pistils. Close-ups of anthers, stigmas, pollen grains, bee, pollen basket on hind leg filled with pollen. Various methods of pollination, including artificial pollination. Living pollen grains are seen under the microscope. Animation shows the complete process of fertilization." Kentucky
 el-jh-sh Guide
- Germinating, and blackberry lily.** ¼R 16-si-\$7.50 Bell & Howell 583
 Produced by Arthur C. Pillsbury
 Growth of these flowers shown by time-lapse photography
- Iris, lupine, pride of the mountains.** ¼R 16-si-\$7.50 Bell & Howell 583
 Produced by Arthur C. Pillsbury
 Growth of these flowers shown by time-lapse photography
- Orchids.** ¼R 16-si-\$7.50 Bell & Howell 583
 Produced by Arthur C. Pillsbury
 Growth of these flowers shown by time-lapse photography
- Orchids, lilies, iris, passion flower, chysanthemums, rose, lotus and cotton growing or opening and seed germinating.** 1R 16-si-\$37.50 Wild flower preservation soc. 583
 Produced by Arthur C. Pillsbury using time-lapse photography
- Paper white narcissus.** 7min 16-si-\$20 35-si-nf-\$30 1930? Scientific film 583
 Produced by Charles F. Herm
 "Bulb propagation of the narcissus as carried on in Florida for commercial purposes." Kansas
 Jh-sh
- Poppy, wild parsnip.** ¼R 16-si-\$7.50 Bell & Howell 583
 Produced by Arthur C. Pillsbury
 Growth of these flowers shown by time-lapse photography
- Seed, and Chinese lily.** ¼R 16-si-\$7.50 Bell & Howell 583
 Produced by Arthur C. Pillsbury
 Growth of these flowers shown by time-lapse photography
- Springtime miracle.** 5min 16-si-\$6.58 35-si-f-nf-apply Bray 583
 "Wildflowers of the Yosemite Valley photographed by stop-motion as they are in process of blossoming; titles are from Lowell's 'Vision of Sir Launfal.'" Producer
 Guide
- Thistledown. (Natural history ser.)** 12min 16-sd-apply 35-sd-f-apply Gaumont British 583
 "A study of the Spear Thistle demonstrating the processes of fertilisation." Producer
 Guide
- Tiger lily, vesper iris, sprouting bean.** ¼R 16-si-\$7.50 Bell & Howell 583
 Produced by Arthur C. Pillsbury
 Growth of these flowers shown by time-lapse photography
- Wild flowers.** 15min 16-si-\$24 1930 Eastman 583
 "Woodland, meadow and field flowers such as Hepatica, Bloodroot, Trillium, Azalea, Iris, Tidy Tip, California Poppy, and Blazing Star, live out their life cycles on the screen. Through time-lapse photography they are seen as they grow, blossom, and wilt—all in an interval of a few minutes." Producer
 el-jh-sh Guide
- Wild flowers.** 2R 16-si-loan 35-si-nf-loan 1928 U.S. agric. 583
 A Bureau of plant industry film
 "Various wild flowers and the preservation of wild flowers. Contains views of violet, buttercups, anemone, phlox, and many others." Iowa state college
- Wild flowers.** 2R 16-si-\$35 35-si-nf-\$100 Wild flower preservation soc. 583
 "60 eastern flowers each reel with instructive legends and showing magnolia and water lily opening and closing." Producer
 sh-c
- 587 Ferns**
- Fern.** 30min 16-si-\$25 35-si-nf-\$75 1935 Harvard 587
 "A rapid survey of various types of ferns, with their characteristic fronds and sori. The breaking of the sporangia and scattering of the spores, the bursting of the spores and their development into prothall completes the first step in this cycle. The second reel shows the development of the antheridia and archaegonia, fertilization, and the growth of the young sporophyte into a mature plant and the completion of the Life Cycle." Producer
 sh-c
- 589.2 Fungi**
- Fungus plants.** 10min 16-sd-\$50 35-sd-nf-\$100 1931 Erpi 589.2
 "Major emphasis is given to the various mushrooms whose growth and reproduction are illustrated by time-lapse photography and animation. Molds and other fungi are also presented by these same techniques. The economic importance of these plants is definitely shown by both the photography and the narrative in their use as food, their destruction of dead organic matter and their cause of disease in plants." Producer
 el-jh-sh Guide
- Mold and yeast.** 8min 16-si-\$12 1930 Eastman 589.2
 "Close-up of moldy orange, a moldy shoe, mildew on cloth, moldy bread. Magnification of bread mold showing hyphae with spore cases. Photomicrographs of ripened spores. Development of mold seen through microscope showing plus and minus strains, zygospore, movement of protoplasm. Photomicrographs of yeast plants showing formation of buds. Use of yeast." Ohio
 el-jh-sh Guide

Myxomycetes or slime molds. 30min 16-si-\$50 35-si-nf-\$150 1931 Harvard 589.2

"Deals with those very interesting but little-known group of border-line organisms which are sometimes plants and sometimes animals. The first reel shows scenes of the native haunts of the slime molds, and several types of fruiting bodies, the breaking open of a spore, the release of a colorless, flagellated swarm cell, which swims around at first, but later loses its flagella and becomes amoeboid. In the second reel, the large mass of protoplasm moves about in search of food. This movement by reversible streaming of the protoplasmic 'network' as well as the 'peristaltic' wave in the advancing edge, where digestion takes place, is . . . shown." Producer

sh-c

589.3 Rockweed

Rockweed. 15min 16-si-\$25 35-si-nf-\$75 1929 Harvard 589.3

"Life History of the common rockweed which grows along North Atlantic sea coasts. . . Close-ups show the reproductive tips, the 'branches' of sperm-sacs within, the bursting of these sacs and the releasing of the individual sperm cells whose lashing cilia drive them rapidly through the water. Likewise is shown the development of the egg through successive divisions from a single cell, its release from the egg-sac, its dramatic fertilization by the sperm, and the final growth of the new plant till maturity is reached and the Life Cycle once more begins." Producer

sh-c

589.95 Bacteriology

Armies of health and disease. (Health and hygiene ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 589.95

By Benjamin C. Gruenberg, formerly of the American association for medical progress

"A study of nature and appearance of bacteria, pasteurization, bacteria as a cause of disease, immunization from certain diseases through inoculation, preparation of vaccines and serums, and the life of Pasteur." Colorado

el-jh-sh Guide

Bacteria. 12min 16-si-\$18 1930 Eastman 589.95

An agar culture medium is made and bacteria from vinegar, water, rich earth and dust are grown, stained and examined microscopically. Cocci, bacilli and spirilla are shown

el-jh-sh Guide

Getting acquainted with bacteria. 1R 16-si-apply 35-si-nf-apply Soc. for visual educ. 589.95

"Foundation for lessons both in sanitation and nature study. It introduces the child to the wonderful field of microscopic organisms and shows that most of the bacteria are as harmless as buttercups and daisies. . . Presents the essential facts about the way in which bacteria are grown and handled in the laboratory. The three typical shapes of bacteria—coccus, bacillus and spirillum—are . . . demonstrated. Size comparisons that appeal to the child-mind make plain the extreme minuteness of bacteria." Producer

"An excellent picture for schools, showing elementary facts and methods in bacteriology." N.Y. (State). Dept. of health Guide

How plants and animals cause disease. (Science of life ser. no. 5) 1R 16-si-\$35 35-si-f-nf-apply Bray 589.95

"Types of bacteria and the diseases they cause; antiseptic; animal parasites; sterilization; action of white corpuscles; tuberculosis bacteria—fresh air and sunshine their enemies." Indiana Jh-sh

Man against microbe. 15min 16-si-loan 35-si-sd-nf-loan 1932 Metropolitan life 589.95

Produced by Audio cinema, inc.

"This film covers three hundred years of progress in public health and medicine. It reveals Van Leeuwenhoek, the first man to see micro-organisms through a microscope; Pasteur, with his new way of killing germs by heat and fighting other germs with vaccines. Lister demonstrates the third means of destroying germs—carbolic spray. We then see the discoverer of the tubercle bacillus and the cholera germ, Robert Koch. Emile Von Behring is shown saving the first human being by diphtheria antitoxin. The film returns to a scene picturing a modern baby being immunized to diphtheria and ends on a note of optimism in the battle against disease." Distributor

Jh-sh

Micro-organisms of hay-infusion. 7min 16-si-\$20 35-si-nf-\$30 1930 Scientific film 589.95

Produced by Charles F. Herm

Biological study of a day-by-day infusion, visualizing the protozoan fauna observed in a drop of pond water

sh

590 ZOOLOGY. ANIMAL LIFE

Animal life. (Harvard univ. natural science ser.) 10min 16-sd-\$50 35-sd-nf-\$100 1932 Erpi 590

"There is first a rapid review of the main types of animals—protozoans, sponges, coelenterates, echinoderms, worms, molluscs, crustaceans, insects, and vertebrates. The rest of the film then deals with animal functions—locomotion, food intake, digestion, waste disposal, respiration, and nervous system activity. These points are illustrated by the use of microscopic and larger animals and by animated diagrams." Harvard el-jh-sh Guide

591 Physiologic zoology

591.3 Embryology

Development. 7min 16-si-\$20 35-si-nf-\$30 1930? Scientific film 591.3

Produced by Charles F. Herm

Paradise fish embryo from blastoderm stage to hatching as visualized thru microscopic observation

Jh-sh

Development of a bird embryo. 15min 16-si-\$24 1932 Eastman 591.3

"An elementary treatment, by means of photomicrography and diagrams, using the chick for early stages, the wren for the last stage and hatching. Technique of

Development of a bird embryo—Continued
mounting the embryo for observation, establishment of circulation, action of the heart, and development of three membranes—yolk sac, amnion, and allantois." Producer sh Guide

Embryology of the egg. 1R 35-si-nf-loan 1921 U.S. agric. 591.3

A Bureau of animal industry film

"How the hen's fertile egg develops into the chick and the infertile egg does not. A short picturization of the beginning of life." Producer

591.5 Habits and behavior of animals

Animals of the zoo. 10min 16-sd-\$50 35-sd-nf-\$100 1933 Erpi 591.5

The lion, tiger, eland, giraffe, bison, hippopotamus, rhinoceros, elephant, monkeys, sea lions, brown, black and polar bears and the different kinds of food they eat el Guide

Housing problem. 15min 16-si-\$17.95 35-si-f-nf-apply Bray 591.5

"How Nature provides shelter for the animal world. Shells, nests, webs, dens, lairs, and finally a review of Man's solution of his housing problem, from the prehistoric cliff-dwelling to the modern skyscraper apartment." Producer

Life in the hedgerows. (Secrets of life ser.) 8min 16-sd-apply 35-sd-f-apply Gaumont British 591.5

"Shows how the hedgerows are used by many animals and birds to conceal their homes." Producer

Guide

Mixed bathing. (Secrets of life ser.) 9min 16-sd-apply 35-sd-f-apply Gaumont British 591.5

"A number of the large mammals and a few of the most striking foreign birds bathe in distinctive fashion. The gorillas, Moina and Mok provide an extraordinary scene in discovering the superior quality of running water over water in a mug for drinking. The young sea-lion (like many aquatic mammals) shows itself reluctant to take a plunge and swim. [Useful in nature study classes]" British film inst.

Guide

Nature's nurseries. 16min 16-si-\$19.78 35-si-f-nf-apply Bray 591.5

"Studies from zoological gardens and from wild life." Producer

"Fish eggs. Alligator eggs. Spider eggs and babies. Hummingbird nest. Feeding young. Deer and young. Sheep and young. Bear and young." California

591.57 Means of protection

Animal camouflage. 15min 16-si-\$24 35-si-nf-\$60 1929? Films of commerce 591.57

Produced by Pathe

"Microscopic and slow motion photography provide intimate studies of crabs, worms, caterpillars, toads, lizards, the 'Walking Stick,' the 'Walking Leaf,' 'Praying Mantis' and other animals and insects that employ protective mimicry in the struggle for existence." Distributor

el-sh

How living things find a home on the earth. (Nature study ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 591.57

By G. Clyde Fisher, of the American museum of natural history

"Useful in nature study. Prehistoric animals, penguins, ostriches, snowshoe hare, hermit crab, frogs, toads, and butterflies are shown." Illinois

"The general aim . . . is to impart a knowledge of the more fundamental laws of nature through which all living things are adapted to their environment, and at the same time to create accurate and intelligent habits of observation and logical correlation of facts by pupils. Other objects are to suggest the influence of heredity and environment upon the development of animal life, to show how animals are protected by resembling their surroundings in color or form, to show how animals hide from their enemies in other ways, and to show how color helps animals secure their food." Iowa univ.

el-jh Guide

How nature protects animals. 10min 16-sd-\$50 35-sd-nf-\$100 1931 Erpi 591.57

"Various ways by which animals are provided with devices to conceal themselves, either for the purpose of protection, or as a means of securing food. Examples are given of natural protection through fleetness of foot, mimicry, protective coloration, armor and secluded homes. Included in the picture are the rabbit, raccoon, giraffe, tiger, lion, zebra, goat, pheasant, looper caterpillar and the bee hawk moth." Producer

el-jh-sh Guide

Nature's armour. 15min 16-si-\$18.36 35-si-f-nf-apply Bray 591.57

"Various characteristics bestowed upon animals for protection and for obtaining food, such as the crocodile, rhinoceros, elephant, lion." Iowa state college

el-jh-sh

591.9 Geographic distribution of animals

Animal and bird life in Yosemite national park. 8min 16-si-apply Kodascope 591.9

By Arthur C. Pillsbury

"The photography of this subject was taken under very difficult conditions, and is not altogether perfect, but the unique subject compensates in some degree for this defect. It will be appreciated by nature lovers and others interested in wild life of the sort described." Producer

Animals of the Yellowstone. 1/4R 16-si-\$5 Burton Holmes 591.9

Bison, wild deer and hungry bears

Big game trails. 2R 16-si-loan 35-si-nf-loan Canadian nat. ry. 591.9

"Wild life within Jasper National Park and big game hunting outside its boundaries." Producer

Canoe trails through mooseland. (Seeing Canada ser.) 13min 16-si-\$9.66 35-si-nf-apply Canadian gov't 591.9

A canoe trip through the wilds of north-eastern Canada containing glimpses of picturesque woodland and waterways. Also many close-up action views of moose, deer, bear, beaver and other wild life on land and water

Canoe trails through Mooseland—Continued

"[Useful in] geography, biology and nature study [classes]" Am. museum of nat. hist. el-jh-sh

Monarchs of the plains. (Seeing Canada ser.) 10min 16-si-\$7.80 35-si-nf-apply Canadian gov't. 591.9

"Visit to Buffalo Park, Walnwright, Alberta, where the Dominion Government has established a great national reserve for the once nearly extinct buffalo, as well as yak, elk, and other wild life. Besides, interesting views of these former monarchs of the plains and how they are cared for, this film depicts the cross-breeding of buffalo with domestic cattle to develop new harder animals." Producer

"[Useful in] geography, nature study, and biology [classes]" Am. museum of nat. hist. el-jh-sh

Rocky mountain mammals. 15min 16-si-\$24 1931 Eastman 591.9

"Mammals of the Rocky Mountain region are depicted living in zones where food, shelter, and climatic conditions are favorable. Mammals of the open plains, the heavy forests, the dwarf timber, and the barren heights." Indiana

Shows antelopes, coyotes, mule deer, a mountain lion, grizzly bear, pack rat, cony, mountain sheep, a marmot, and many views of mountain goats

Guide

Some larger mammals. 15min 16-si-\$24 1931 Eastman 591.9

This film supplements "Rocky mountain mammals" listed above

Herds of bison, black bears, Virginia deer, wapiti, and moose in their several types of wild surroundings

Guide

Tame wild life of Yosemite. (Travelette) 1R 16-si-\$24 Haselton 591.9

"Golden Mantled ground squirrel; California ground squirrel; Western tanager; mule deer; Sierra grouse; San Joaquin Valley elk; forest of antlers; blue-fronted jay; young black-headed grosbeaks and robin; young Sierra chickadee; American black bear." California

Bears only, may be secured on a little more than a quarter of a reel (16-si-\$7.50) and Deer alone ¼R (16-si-\$6)

591.92 Marine and fresh-water fauna

Beach and sea animals. 10min 16-sd-\$50 35-sd-nf-\$100 1931 Erpi 591.92

By Dr. G. Clyde Fisher, of the American museum of natural history

"Among the animals brought to the screen are the starfish, sea-urchin, crab, cuttle-fish, octopus, crayfish, lobster, shrimp, snail, scallop, and the sea-cucumber. The physical structure and activities of these animals are presented in an intimate way. The balance in nature or interrelations of various animals is . . . illustrated, special emphasis being placed on their methods of protection." Producer

el-jh-sh-c Guide

Pond and stream life. 2R 16-si-apply 35-si-nf-apply Soc. for visual educ. 591.92

"After an introduction to the sprawly nymph of the dragon-fly and later to the mature fly itself, special lenses bring its jaws and wonderful jeweled eyes into nearer view. A photomicrograph of snail eggs shows the movements of embryo

pond-snails within the gelatin; later one of the snails performs a tight-rope act along the sharp edge of a razor blade, to demonstrate a peculiarity of its 'foot.' Turtles, frogs and toads are studied at close range as they enjoy their dinners, a 'horse-hair' snake tangles and untangles itself, and a lively fight between a tiny crawfish and a waterbug takes place, while a fierce 'water-tiger' pursues his frantic prey." Producer

sh Guide

Pond insects. 10min 16-sd-\$50 35-sd-nf-\$100 1932 Erpi 591.92

"The diving water beetle, the mayfly, and the dragonfly, as representative of this group of insects. Their life cycles are portrayed, as well as their food habits and struggle for existence. Among the events shown are the method by which the diving beetle lays its egg; a water beetle larva attacking a large tadpole; the mayfly molting after acquiring wings; the mayfly hiding from its enemies; and the remarkable mask of the dragonfly nymph." Producer

jh-sh-c Guide

Some seashore animals. 12min 16-si-\$18 1930 Eastman 591.92

Views of the anemone and its relative, the sea feather, feather dusters (marine tube worms)—one old specimen in its long, calcareous tube. Sea urchins from various angles. Close-ups of starfishes show how their tube feet assist them in feeding. A sunflower star swallows food; and the hermit crab and some of its seashore neighbors

Guide

Some water insects. 12min 16-si-\$18 1930 Eastman 591.92

"Striders skim along the surface—a water bug seizes and eats a minnow—a scorpion comes up for air—dragon and damselflies are treated in detail." Producer

jh-sh-c Guide

Tiny water animals. 10min 16-sd-\$50 35-sd-nf-\$100 1931 Erpi 591.92

Life processes and activities of amoebae and paramecia are shown with the activities of the amoebae given major emphasis. Reproduction of amoebae is presented. Reveals other interesting creatures, such as the wheel animalcule, chiloden, swan animalcule. Micro-photography is used

sh Guide

Under-sea life. 8min 16-si-\$12 1932 Eastman 591.92

Devoted to the fauna of the North Atlantic coast showing how special forms have developed biologically to fulfill certain functions. There are the puffers that swell far beyond their normal size at the approach of an enemy; the shark and the shark sucker; the sting rays and skates which have flattened themselves to the sea floor. There are squid, sea horses, snails, crabs, and sea robin

"Suited to classes in biology as well as nature study." Producer

Guide

593 Protozoans. Elementary animals

Adventure in Tripoli. 8min 16-si-\$10.58 35-si-f-nf-apply Bray 593

"Showing through a microscope the beautiful radiolaria from the ocean floor; illustrates its use by gem cutters and instrument makers for polishing and grinding." Producer

Amoeba. 1R 16-si-apply Edited pictures 593
A simple study of the amoeba and vorticella, using animated diagrams
Jh-sh

Amoeba. (Biology ser.) 9min 16-sd-apply 35-sd-f-apply Gaumont British 593
"The production of pseudopods is shown—the amoeba pursuing and capturing its prey and ingesting living organisms." Producer
Guide

Elementary animals. 1R 16-si-\$25 35-si-nf-\$75 Harvard 593
"Motion, feeding (growth) and a simple muscular activity of the protoplasm are demonstrated by Amoebas." Massachusetts

Hydra. 1R 16-si-apply Edited pictures 593
Study of the structure and functions of this fresh water polype
sh

Living cell. 15min 16-si-\$24 1929 Eastman 593
"Single-celled organisms, appearance of yeast under microscope, the amoeba, amoeba feeding, growing, and dividing, the paramecium. Many celled organisms, the hydra, flatworm, tissue cells, a shred of muscle, ciliated epithelium, cell division, dividing plant cells, animal cells dividing." Ohio
el-jh-sh Guide

Microscopic animal life. 15min 16-si-\$24 1930 Eastman 593
"Photomicrographic views show four single-celled animals: amoeba, paramecium (slipper-shaped protozoan), stentor (trumpet-shaped protozoan), vorticella (bell-shaped protozoan)—and one remarkable multi-celled animal, the rotifer ('wheel animalcule')." Producer
Jh-sh-c Guide

Obelia. (Biology ser.) 8min 16-sd-apply 35-sd-f-apply 1936 Gaumont British 593
"The precise habitat is given; on tangle-woods from low water down to 20 feet colonies of this strange animal in its nutritive phase are found in large numbers. The minute polyps are seen to contract spasmodically in feeding. Still more fascinating are the graceful movements of the free-swimming medusoid individuals of both sexes once they have merged from the flask-shaped gonothecae. These translucent, exquisitely fringed shallow bells alone survive in the winter months and suffice to establish new colonies of sedentary habit in the spring. Excellent photography. The film is all too brief, though very satisfying in making real the connection between the two generations. British film inst.
sh-c Guide

Protoplasm—the beginning of life. (Science of life ser. no. 1) 1R 16-si-\$35 35-si-f-nf-apply Bray 593
"The earth before life appeared—earliest forms of life traced through the study of geology. Simplest forms of life. Characteristics of living things—movement, irritability, assimilation, and reproduction—shown in amoeba, stentor and other simple forms. Protoplasm shown in characteristic motion in one-celled and many celled hosts. Growth and reproduction suggested by views of familiar plant and animal life." California
sh

Sea urchin. (Biology ser.) 11min 16-sd-apply 35-sd-f-apply 1936 Gaumont British 593

"Masses of laminaria at low-tide on a rocky shore are shown to hide the familiar species of Echinus. The movements of tube feet and pedicellariae are beautifully shown and their functions briefly explained. By a series of partial dissections in ordered sequence one gains a very good general idea of the reproductive organs and the alimentary canal in both sexes. One watches the extrusion of innumerable minute eggs, and later dense streams of sperms which are chemically attracted by the former. Fertilisation, membrane formation and segmentation are most convincingly shown. The embryo escapes from the membrane and part of its further development is seen. Precise references to dates add much to the value of the film. . . Excellent photography. . . [Useful in] zoology and biology [classes]." British film inst.
sh-c-c Guide

Simple animal forms. 15min 16-si-\$25 35-si-nf-\$75 Harvard 593
"Deals with another great group of the Protozoa—the Ciliates. These are treated at length, giving a striking survey of the extraordinary varied adaptations and specializations of which protoplasm is capable." Massachusetts

593.4 Sponges

Sponge industry. 15min 16-si-sd-loan 1935 Rhodes 593.4
Narrated by Jean Paul King. The sound makes this decidedly an advertising film and those objecting to this should secure the silent film. It is a good presentation of the sponge fishing off the coast of Florida and the preparation and grading of sponges for market

593.9 Echinodermata

Marauders of the sea. 18min 16-si-\$22.13 35-si-f-nf-apply Bray 593.9
"Splendid studies of strange predatory life in the deep seas, especially the Starfish and 'Portuguese Man-o-War' and their victims." Missouri

594 Mollusks

Life history of the pearl. 8min 16-si-\$9.58 35-si-f-nf-apply Bray 594
"How pearls grow; the life of the oyster selection and grading of pearls." Iowa state college
Jh-sh

Molluscs. 15min 16-si-\$24 35-si-nf-\$60 1929? Films of commerce 594
Produced by Pathe
Study of the more common molluscs—the oyster, octopus, cuttle fish and snail

Oysters. 15min 16-si-\$24 1932 Eastman 594
"Life history of the Atlantic oysters. Methods used in oyster 'farming,' fishing and canning. Also how pearls, formed in the Oriental pearl-oyster, are graded, drilled, and assembled into necklaces." Producer Jh-sh-c Guide

Seaside friends and their country cousins. (Nature study ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 594

By G. Clyde Fisher, of the American museum of natural history

"Depicts the life functions and the structure of various invertebrates, portrays the life history of the oyster, and indicates some economic values of this type of animal life." Kansas

el-jh Guide

Sexual reproduction. 7min 16-si-\$20 35-si-nf-\$30 1930 Scientific film 594

Produced by Charles F. Herm

"Microscopic study visualizing the characteristic differences existing between sperm and germ cell of the Atlantic oyster, method of fertilization, cell cleavage, cell division illustrating means by which the fertilized ovum passes from the one cell stage to the mulberry stage, thus reproducing a new individual." Texas

jh-sh

595 Articulates

595.1 Worms

Earthworm. (Biology ser.) 18min 16-sd-apply 35-sd-f-apply 1936 Gaumont British 595.1

"By means of garden scenes in which a hungry bird figures, soil excavations, transverse sections, dissection in progress and diagrams, a very detailed and extremely interesting study of this familiar animal is presented. The ciliary action in the excretory tubules or nephridia arrests one's attention long before the process is actually mentioned, so perfectly is it portrayed. The reciprocal nature of fertilisation between two worms is made clear by a diagram with moving sperms. The time factor here and in relation to the development of the young worms within the cocoon is explicitly introduced. The film should be preceded and followed by practical work and then shown a second time. An extremely valuable film for any class studying the earthworm in detail. . . . Excellent photography: the ovaries, living sperms in two stages, and the nephridia call for special comment. The diagrams are very helpful. Pace is appreciably too rapid in parts. . . . [Useful in] zoology and biology [classes]" British film inst.

sh-c Guide

595.4 Spiders

Black-and-orange garden spider. 11min 16-si-\$24 35-si-nf-\$45 1922 Soc. for visual educ. 595.4

"Shows the complete metamorphosis of this familiar spider—the female Miranda spinning her web—entangling her prey—enjoying the feast—laying eggs—hatching of the young, etc." Producer

Guide

Spiders. 15min 16-si-\$24 1931 Eastman 595.4

"Characteristic habits and development of several species. The units are: Structure of the Spider; Spinning an Orb web; Rearing the Young; Trapdoor Spiders." Utah

jh-sh-c Guide

Spiders. 10min 16-sd-\$50 35-sd-nf-\$100 1931 Erpi 595.4

A presentation of the life cycle of the nursery-web spider and peculiar habits and characteristics of the orb-web, funnel-web and trap-door spiders. Shows home building ability and their fearlessness as hunters or providers

jh-sh-c Guide

595.7 Insects

For insect pests see class 632.7

Aphids. 10min 16-sd-\$50 35-sd-nf-\$100 1933 Erpi 595.7

"Deals with a very interesting creature. It shows that most aphids have no fathers or even grandfathers. Some are born alive, while others hatch from eggs; only a few have wings. Ants keep them as cows, while the aphid itself secures its food in an unusual way. It is beset by a host of enemies among which is man. These scenes are supplemented by an animated drawing of the aphid's life cycle." Producer

el-jh-sh-c Guide

Beneath our feet. 10min 16-sd-rent \$1.50 Bell & Howell 595.7

"The daily life of the tiny world that crawls beneath our feet. Through the magnifying lens we see the bee on its honey collecting tour, and the ant in its busy, bustling community. The Lady Bird Beetle meets some grotesque neighbors while strolling down a path whereon one false step means tragedy. The cricket sings a love song while the trapdoor spider constructs a trap door. The spider disapproves the cricket's song and the cricket hurriedly departs. But he escapes one enemy only to meet another. Though larger, he is no match for the many-legged centipede. The struggle is desperate, but the centipede's poison fangs eventually find a joint in the cricket's armor, and a cheerful chirp is silenced forever." Producer

jh-sh-c

Grasshopper. 1R 16-si-apply Edited pictures 595.7

Produced by Urban

"Study of their tiny city; close-ups of male, female and worker; hatching of larvae; methods of feeding." Distributor

el-jh-sh-c

Killers. (Battle for life ser.) 11min 16-sd-rent \$1.50 Bell & Howell 595.7

"Another intimate study in macro-photography. Proving that the continued existence of insects depends upon their ability to destroy each other, we see the mantis, one of the most formidable of insect warriors, attack and devour an unfortunate butterfly whose means of defense is unavailing. But, in turn, the demon mantis is no match for the powerful and skillful wasp. Again, the wasp, clever though he may be, is a weakling when when forced into combat with a spider. Even the scorpion, a creature that commands the respect of all flying and creeping insects, is destroyed when he meets one of his own kind. In a spectacular battle, each injects into the other a poison that results in death to both fighters." Producer

jh-sh-c

Life cycle of the ant-lion. 8min 16-sd-rent
\$1.50 Bell & Howell 595.7

By Louis Tolhurst

Curious life history of an insect that bears the ridiculous title of 'Ant-lion,' though neither ant nor lion. Also laughingly referred to as the 'Doodlebug,' which, after a period devoted to the ingenious trapping of ants, becomes, through the magic of nature, a colorful and swiftly darting swamp fly. . . Cinematography of special interest to students of entomology." Producer

jh-sh-c

Nature's handiwork. 16min 16-si-apply
Edited pictures 595.7

Produced by Urban

"A study of the interesting life history of a number of moths and butterflies. Highly valuable for nature-study classes, and instructive to all." Washington

595.73 Termites

Termites. 15min 16-si-\$24 1930 Eastman
595.73

Subterranean termites are seen in the wood of an infested house. Worker and soldier caste are shown. Royal and supplemental kings and queens are compared. Rotten-wood termite nymphs burrow and tend eggs laid by the royal queen. A nymph molts. A soldier sounds a warning of danger and a colony is attacked by common black ants. Nymphs, alates, and de-alates are pictured. Shows how to locate termite colonies
Guide

595.76 Beetles

For films on beetles as injurious insects
see class 632.7

Beetles. 10min 16-sd-\$50 35-sd-nf-\$100
1931 Erpi 595.76

"Life histories of the tiger, ladybird and Japanese beetles. . . Many rarely observed events in their lives are presented; some comic, some tragic. The economic relation of beetles to man is . . . brought out. Picture and narrative demonstrate how some beetles have been pressed into the service of man, while others are harmful and must be destroyed through ceaseless warfare carried on by man." Producer
jh-sh-c Guide

595.77 Flies

Blowfly. (Biology ser.) 17min 16-sd-apply
35-sd-f-apply 1935 Gaumont British
595.77

"The life-history of this common fly, frequently seen inside window panes and on food, is traced completely from the newly-laid egg, through the negatively phototropic larval stage and the pupal stage to the egg-laying, positively phototropic adult stage. The distinction in position of the eyes of male and female is clearly portrayed. Throughout, the time factor is introduced in a most satisfactory way. One sees distinctly in the growing larva, the alimentary canal, nervous system, spiracles and tracheal tubes; the pulsation of the heart is shown too. The mechanisms used by the six-legged insect as it emerges from the pupal case and when the wings expand are particularly

arresting. An outstandingly good film from which one learns precisely how to set about breeding these insects. . . A few stills are used very effectively for comparison of successive stages in development and serve also for revision. [Useful in] biology, zoology, nature study and hygiene [classes] British film inst.
jh-sh Guide

Fly as a disease carrier. (Science of life ser. no. 9) 1R 16-si-\$35 35-si-f-nf-apply Bray 595.77

"Structure of the house fly; its feet, proboscis and crop, as related to the distribution of bacteria; the breeding and feeding habits of the fly, with special relation to spread of disease; also life history and practical suggestions toward extermination." Illinois
jh-sh

Greenbottle fly. 13min 16-si-\$24 35-si-nf-\$50 1922 Soc. for visual educ. 595.77

"The work of the greenbottle fly, one of nature's scavengers, is traced in this reel." Producer

Guide

House fly. 15min 16-si-\$24 1933 Eastman
595.77

"Life history, depicting larva, pupa, and adult. The structure of the house fly, which helps to make it a health menace, is shown in motion photomicrographs. The dangerous habits, rapidity of breeding, and methods of control of this common insect are shown." Producer
el-jh-sh-c Guide

House fly. (Natural science ser.) 10min
16-sd-\$50 35-sd-nf-\$100 1935 Erpi
595.77

"Portrayal of the life cycle and habits of this dangerous pest, along with a delineation of methods for its control." Producer
Guide

Our common enemy—the fly. 15min 16-si-\$24 35-si-nf-\$60 1929? Films of commerce 595.77

Produced by Pathe

"Picture study of the house-fly from egg to maturity." Colorado

595.771 Mosquitoes

How the mosquito spreads disease. (Science of life ser. no. 8) 1R 16-si-\$35 35-si-f-nf-apply Bray 595.771

"Life history of the mosquito, malaria parasite and its cycle in the mosquito and in human blood. Prevention of malaria and yellow fever." Texas

Life history of the yellow fever mosquito. 15min 16-si-\$24 1929 Eastman 595.771

"Photomicrographic views of mosquito eggs floating in water—hatching, feeding, swimming, breathing of the larva—metamorphosis from larva to pupa, and from pupa to mosquito—adult mosquito biting and feeding." Producer
el-jh-sh-c Guide

Mosquito. 14min 16-si-\$24 35-si-nf-\$55 1921 Soc. for visual educ. 595.771

"This reel rounds out one's intimate acquaintance with the aggressive mosquito. It shows the ponds and puddles where one or two hundred eggs are laid at a time; the hatching under water; the breathing

Mosquito—Continued

tube, abdomen and thorax under a microscope; the larvae or 'wigglers' feeding on animal and plant life, rising to the surface for air and moulting three times; the pupae or 'tumblers' resting at the top of the water; the skin splitting, and the mosquito emerging and drying its wings." Producer

Guide

Mosquito—public enemy. 2R 16-sd-loan 35-sd-nf-loan 1935 U.S. agric. 595.771

A Bureau of entomology and plant quarantine film

"Discusses the mosquito as a pest affecting man and beast, varieties and life history; safeguards and methods of control." Producer

Mosquitoes. 3R 16-si-loan 35-si-nf-loan 1933 U.S. agric. 595.771

A Bureau of entomology and plant quarantine film

"The mosquito as a pest affecting man and beast; varieties and life history; safeguards and methods of control." Illinois "Scenes taken mostly in New Jersey and Florida." Texas

Singing and stinging. 15min 16-si-\$24 35-si-nf-\$60 1926 Films of commerce 595.771

Produced by Pathe

"Life history of the mosquito, including microscopic views of the eggs floating in water, hatching, feeding, swimming, breathing of larva; development of larvae through stages into the mosquito. Methods of ridding places of the pest are also shown." Colorado

Stung! by Amos Quito. 12min 16-si-\$13.22 35-si-f-nf-apply Bray 595.771

"Public information on preventing malaria, made with cooperation of U.S. Public Health Service, Bureau of Fisheries, and American Museum of Natural History." Producer

595.78 Butterflies. Moths

Butterflies. 10min 16-sd-\$50 35-sd-nf-\$100 1931 Erpi 595.78

"Illustrates the complete life history of the cabbage butterfly and the swallowtail butterfly with their different characteristics and habits, including their role in nature, that of aiding in the cross-fertilization of flowers. Time-lapse photography is employed to show in a few seconds processes which require an hour or more. The destructiveness of the cabbage butterfly, as well as its unusual control by a natural enemy, is dramatically depicted." Producer
el-jh-sh Guide

Butterflies and moths. (Nature study ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 595.78

By G. Clyde Fisher, of the American museum of natural history

"Life history and metamorphosis of the monarch butterfly and the cecropia moth in detail, with some phases of transition in slow motion. The butterfly's tubed tongue; magnification of its wings; distinction between male and female; the caterpillar's feet, six with hooks and ten with suction cups; texture of the cecropia cocoon." Indiana
el-jh-sh Guide

Butterflies and nettles. (Biology ser.) 8½min 16-sd-apply 35-sd-f-apply Gaudmont British 595.78

Life cycle from the laying of eggs to the final emergence of the butterfly from the pupal case

Guide

Cocoon to butterfly. (Conflict of nature ser.) 9½min 16-sd-rent \$1.50 Bell & Howell 595.78

Macro-cinematography by Louis Tolhurst

"A close-up action study of the metamorphosis of the caterpillar to butterfly. . . Details of feeding, drinking from dew drops, spinning the cocoon, struggle to emerge, and intimate views of the butterfly's anatomical structure, are shown with the aid of a powerful microscope." Producer
jh-sh-c

Comma butterfly. 15min 16-si-\$18.53 35-si-f-nf-apply Bray 595.78

"Shows all changes from egg to full grown butterfly." Missouri
jh-sh-c

Life-history of the monarch butterfly. 10min 16-si-\$20 35-si-nf-\$40 1921 Soc. for visual educ. 595.78

"The larva is seen feeding on the milkweed leaf and later spinning the silk pad from which the chrysalis is to hang. Shedding its skin, it passes into the pupa stage. Within the thin walls of the chrysalis case we see the faint outlines of the developing butterfly. Finally the chrysalis bursts, a moist, tightly-folded creature staggers forth, dries its wings, and flutters away—a gorgeous Monarch butterfly." Producer
el-jh-sh Guide

Moths. 10min 16-sd-\$50 35-sd-nf-\$100 1931 Erpi 595.78

"A large silk moth and the white-masked tussock moth are followed in detail through their life histories. The silk moth caterpillar is shown at work on the construction of its unusual cocoon. The secluded life of the female tussock moth is revealed. All the steps in their life cycles are portrayed. Attention is called to their economic importance." Producer
jh-sh Guide

Samia cecropia, the giant American silkworm. 13min 16-si-\$24 35-si-nf-\$50 1920 Soc. for visual educ. 595.78

"Life-cycle of the moth. We see the eggs photographed through a microscope, as the tiny black caterpillars eat their way out through the shell. All four stages of the larva's development are shown. We see the caterpillar pulling leaves about it to conceal its movement, then fastening the guyropes and spinning the cocoon. The cocoon is cut open to show us the inner lining, and . . . close-ups enable us to watch the mature moth as it forces its way out of the cocoon." Producer
el-jh-sh Guide

595.79 Bees

Bee culture. 4R 35-si-nf-apply Soc. for visual educ. 595.79

The apiary, standard hive handling and care of bees, use of the smoker, gathering and marketing honey, distinguishing characteristics of queen and wintering bees
sh Guide

Bees and spiders. (Nature study ser.)
12min 16-si-\$24 35-si-nf-\$80 prior 1927
DeVry 595.79

By G. Clyde Fisher, of the American museum of natural history
"Life history of the bee, the economic value of bees through homemaking and pollinization, and the habits and appearance of the garden and trap door spider."
Iowa univ.

el-jh Guide

Bees—how they live and work. 1R 16-si-loan 35-si-nf-loan 1922 U.S. agric.
595.79

A Bureau of entomology and plant quarantine film

"How the bees gather nectar and transform it into a valuable food—honey; apilary and bottling methods are shown, as well as a queen laying eggs, bees hatching, bees gathering nectar, and other operations in the lives of these interesting insects."
Texas

Honey bee. (Ford educational library ser.) 1R 16-si-\$15 35-si-nf-\$40 Ford
595.79

"Brood cells, laying eggs, hatching, swarming, workers carrying honey and pollen, use of smoker, removing honey-comb, separating honey from comb." Missouri
Guide

Realm of the honeybee. 4R 16-si-loan 35-si-nf-loan 1932 U.S. agric 595.79

A Bureau of entomology and plant quarantine film

Life history of the honeybee, containing close-ups
jh-sh-c

Wasps. 13min 16-si-\$24 35-si-nf-\$50 1921
Soc. for visual educ. 595.79

"A split-reel, tracing the life-history of mud-dauber and Polistes wasps. Shows the building of their houses, stocking them with food, and laying the eggs. Visualizes the hatching of the young and the development from grub to wasp." Producer
Guide

595.796 Ants

Ants. (Nature study ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 595.796

By G. Clyde Fisher of the American museum of natural history

"Interesting facts about ants. Shows eggs, larva, pupa; and adult ants at work." Illinois

el-jh Guide

Ants: nature's craftsmen. 15min 16-si-\$24 35-si-nf-\$60 1929? Films of commerce
595.796

Produced by Pathe

"Fascinating micro-cinematographic study of ants and community life. It deals with a careful analysis of the structure of queens, males, and workers. Very instructive pictures of mounds and ant-hills; thousands of workers at work. The story of hatching; 'nurses' ministering to newly born ants; attacks upon enemies; feeding babies; defense of the home, etc." Colorado

Battle of the ants. 18min 16-si-\$21.10 35-si-f-nf-apply Bray 595.796

"An army of ants invades a neighboring colony, captures it after a desperate struggle and annexes the new territory." Producer
jh-sh-c

Battle of the centuries. (Battle for life ser.) 10min 16-sd-rent \$1.50 Bell & Howell 595.796

Shows, by microscopic photography, the complete life cycle of the common ant. Shows struggle for supremacy between the ant and termite armies
jh-sh-c

Our ant gang. ¼R 16-si-\$6 Bell & Howell 595.796

By Louis Tolhurst

"Shows the energy which the Ant Gang displays in building its network of tunnels underground and the military marshaling of forces when a large obstacle obstructs the path; development of the ant from the egg through the larva and nymph stages." Colorado

597 Fishes

For fishing as an industry see 639. For fishing as a sport see 799.1

Crayfish-stickleback. 15min 16-si-\$24 35-si-nf-\$60 1929? Films of commerce 597

Produced by Pathe

"The Crayfish is an animal which is of universal interest in the study of zoology and nature study in schools. This detailed story of him in picture form describes his structure, surroundings, habits, breeding. . . The Stickleback is . . . the only fish that builds a nest, somewhat similar to that of a bird. This . . . shows the fish, its peculiarities, its nest with the eggs in it, the male guarding it and the lively family of little Sticklebacks." Distributor
sh

Day at the river. (Nature study ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 597

By G. Clyde Fisher, of the American museum of natural history

Life history of the trout and the salmon, nesting habits of the stickleback, and the appearance and habits of the crayfish

el-jh Guide

Pacific coast salmon. 15min 16-si-\$24 1930 Eastman 597

"The life history of one of our chief sea foods is presented in a clear, concise manner, and the magnitude of the fishing industry is stressed. Salmon struggle against falls, rapids, and rough water, on the way upstream. Slow motion views show them jumping the falls. The salmon run. Artificial spawning. Salmon fishing. How salmon are cleaned, cut, canned, cooked, labeled, and shipped." Indiana
Guide

597.8 Toads. Frogs

Down at our pond. (Nature study ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 597.8

By G. Clyde Fisher, of the American museum of natural history

"Life history of toads and frogs, and some of the more interesting characteristics of turtles and snakes. For older pupils, the development of the toad from the egg through the tadpole stage will provide a background for a study of the more important aspects of the mysteries of life." Iowa univ.

el-jh Guide

Frog. 1R 16-si-apply Edited pictures 597.8

Development of the frog from egg to pollywog and the metamorphosis to the full-grown frog shown under the microscope

Frog. (Harvard univ. natural science ser.) 10min 16-sd-\$50 35-sd-nf-\$100 1931 Erpi 597.8

"The frog, as the most representative amphibian, is here picturized. The entire life cycle of the frog is presented, aided by many stop-motion scenes and microscopic views. The development of the embryo is thus brought to the screen in a continuous scene of only a few seconds. The several changes taking place in the tadpole stage are . . . portrayed by picture and narrative. Slow-motion photography demonstrates the graceful movements of the frog in jumping." Producer el-jh-sh Guide

Frogs, toads, and salamanders. 15min 16-si-\$24 1932 Eastman 597.8

"The frog, tree frog, green frog, eggs, tadpoles, formation of gills, white heron eating tadpoles, transformation from tadpole to frog. The toad, eggs, tadpoles, wart glands secrete protecting fluid, breathing movements, winking, feeding on earth worms, absorbing water through skin, burrowing with hind legs, hibernation. Salamander, young newt tadpole, gills, existence on land, return to water, the mud puppy, water dog, hellbender." Ohio jh-sh-c Guide

Toads. 14min 16-si-apply 35-si-nf-apply 1921 Soc. for visual educ. 597.8

"The complete life-cycle of the common garden toad and the tree toad, or Pickering's hyla . . . Many . . . glimpses of tadpoles and mature toads." Producer jh-sh Guide

598.1 Reptiles**Reptiles.** 15min 16-si-\$24 1932 Eastman 598.1

Harmless garter snakes, pit vipers, and poisonous coral snakes; New World lizards—American "chameleon," horned "toad," iguana, and Gila monster; alligators—their habits, eggs and young; tortoises and turtles—box tortoise, desert tortoise, and marine turtles

Guide

Tortoises. ¼R 16-si-\$9.50 Bell & Howell 598.1

By Raymond L. Ditmars of the Bronx zoological park

"The American box tortoise, the Madagascar tortoise and the Galapagos, the largest species of the tortoise." Colorado

598.2 Birds**Baby on the rock.** (Secrets of life ser.) 9min 16-sd-apply 35-sd-f-apply Gaumont British 598.2

A study of the buzzard showing details of the nesting site, the nest, eggs and brooding hen, the precautions taken to hide the nest from enemies, the hatching of the eggs, care and feeding of nestlings, and the attempts of the fledglings to leave the nest. It shows also the grown birds in flight. Should be useful in nature study or biology classes

Guide

Baby songbirds at mealtime. 15min 16-si-\$24 35-si-nf-\$60 1929? Films of commerce 598.2

Nature study dealing almost entirely with little songbirds and their eating habits. Many pictures of parent birds feeding their nestlings. Some of the birds shown are: sparrows, linnets, canaries, bullfinch, chaffinch, brown linnet, titmice or chickadees, the long-tailed tomtit, European warbler and the marsh wren

Bird homes. 15min 16-si-\$24 1930 Eastman 598.2

"Shows the beach and marsh homes of the least tern, killdeer, stilt, gull, pied-billed grebe,—the meadow homes of the bobolink, spotted sandpiper, horned lark, meadow lark, and burrowing owl—the skyscraper homes of cormorants, puffins, duck hawks, flickers,—and the homes of birds which build near the ground, such as the cuckoo, wood thrush, yellow warbler, redstart, and humming bird." Producer el-jh-sh Guide

Bird neighbors in summer. 10min 16-si-\$10.50 35-si-nf-\$53.22 Canadian gov't. 598.2

Bilingual titles

Bird protection, dealing with common varieties of birds that nest in close proximity to habitation in the summer months. How to protect them and how to make friends with them

"[Useful in] biology and nature study [classes]" Am. museum of nat. hist.

jh-sh

Bird neighbors in winter. 5min 16-si-\$8.19 35-si-nf-apply Canadian gov't. 598.2

Titles in French and English

"An interesting film on bird protection, showing the chickadee, downy woodpecker, white-breasted nuthatch, and other common winter birds; showing how the bird lover may protect and make friends with them. [Useful in] biology and nature study [classes]" Am. museum of nat. hist.

jh-sh

Birds of Bonaventure. (Seeing Canada ser.) 5min 16-si-\$6.51 35-si-nf-\$32.64 Canadian gov't. 598.2

"Glimpses of the famous Canadian bird sanctuary at Bonaventure Island in the Gulf of St. Lawrence and the various types of Canadian sea-fowl that nest in countless thousands on the cliffs of this picturesque home of birds." Producer

jh-sh

Birds of prey. 15min 16-si-\$24 1931 Eastman 598.2

"Unusual eyes, beaks, feet, and feather structure, which assist birds of prey in food gathering, are featured. A goshawk in slow motion photography, a peregrine and young, a marsh hawk, rough-legged hawks, barn owls, a great horned owl, black vultures, and bald eagles are pictured." Producer

jh-sh Guide

Birds of prey. 15min 16-si-\$24 35-si-nf-\$60 1931 Films of commerce 598.2

Produced by Pathe

"Showing the habits, habitat and characteristics of carnivorous birds of the Americas, Asia and Europe. The kestrel, hawk, sparrow hawk, buzzard, goshawk, the lammergeier of Asia, the Andean condor, the European vulture and the American eagle are among the birds shown in this picture." Distributor

Birds of the seacoast. 15min 16-si-\$24 1931 Eastman 598.2

Long wings and webbed feet of water birds are shown as well as their food pouches and bills which are especially adapted to their habits in procuring food. Shows young gulls hatching out, terns' eggs, black skimmers' nests and digging of hiding holes for the young. Colonies of murres, nesting grounds of cormorants and the brown pelican's bill pouch are also shown

Jh-sh Guide

Birds rare and fantastic. (Canadian sea fowl ser.) 10min 16-si-\$10.32 35-si-nf-apply Canadian gov't. 598.2

Titles in French and English

"Life and habits of the red-throated loon, the double-crested cormorant, and the common cormorant." Indiana

Fleet wings. (Canadian sea fowl ser.) 10min 16-si-\$10.14 35-si-nf-apply Canadian gov't. 598.2

Titles in French and English

"Dealing with the life and habits of the Herring Gull, the Ring-billed Gull and the Caspian Tern." Producer

Game birds. 15min 16-si-\$24 1931 Eastman 598.2

"Waterfowl, mallard ducks, feeding, nesting habits, pin-tails 'dabbling,' female teal and nest, wild geese, swimming and nesting, goose feathering its nest, goslings, coots (mud hens), lobes on coots' feet. Grouse, 'fool hens' (Franklin grouse), ruffed grouse. Quail, a California quail taking dust bath, bob white and nest, young birds. Pheasants, the silver pheasant, ring-neck pheasant, wild turkeys." Ohio

el-jh-sh-c Guide

Home from the South. (Secrets of life ser.) 9min 16-sd-apply 35-sd-f-apply Gaumont British 598.2

"One watches at close range the chaffinch . . . the two kinds of whitethroat garden warbler, reed warbler, sedge warbler, willow warbler, wood warbler and their exquisitely made nests. One is reminded of the passing of the year by beautiful studies of many trees in blossom and caterpillars crawling along willow twigs. A young cuckoo ousting its foster mother's own small egg from the nest and later, when almost full grown, dependent for nourishment on the little warbler, affords a grotesque surprise for a few moments. . . A very enjoyable portrayal of bird life. . . The re-introduction of the eight birds in stills towards the end is particularly apt. [Useful in] nature study, biology, zoology, gardening and agriculture [classes] British film inst.

Jh-sh-Guide

Home of the birds. (Canadian sea fowl ser.) 8min 16-si-\$11.10 35-si-nf-apply Canadian gov't. 598.2

Bilingual titles

"Very similar to 'Birds of Bonaventure,' listed above, many of the scenes being the same. The home and breeding place of many of the Canadian sea-fowl." Colorado

Hummingbirds. 5min 16-si-\$6.91 35-si-f-nf-apply Bray 598.2

By William L. and Irene Finley

"The mother bird and her tiny eggs in the nest; fledglings not much larger than bumble bees, etc." Producer

In birdland. (Nature study ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 598.2

By G. Clyde Fisher of the American museum of natural history

A collection of small native birds. Represented are the finches, sparrows, chickadees, nuthatches, linnetts, wrens, kingfishers, humming birds and flickers. Simple bird house construction is also shown

el-jh Guide

Mallard duck in Oregon. 5min 16-si-\$5.38 35-si-f-nf-apply Bray 598.2

By William L. Finley

"How the wild mallard duck builds its nest and rears its family." Producer

National bird refuges. 1R 16-si-loan 35-si-nf-loan 1922 U.S. agric. 598.2

A Bureau of biological survey film

"A trip on a government patrol boat to federal bird refuges on islands in the Gulf of Mexico, off the coast of Louisiana; brown pelicans, royal terns, laughing gulls, black skimmers, and other birds." Indiana

el-jh-sh

Nature's gliders. 18min 16-si-\$20.83 35-si-f-nf-apply Bray 598.2

"Analysis of the flight of birds by slow motion; seabirds taking off from the cliff; gliding; use of air currents by birds to propel themselves; gulls, gannets, wild swans, cranes and herons in full flight. Why domesticated birds lose their power of flight." Producer

Nimrods in duckland. (Seeing Canada ser.) 8min 16-si-\$10.68 35-si-nf-apply Canadian gov't. 598.2

"Provides a record of a day's duck shooting on the upper St. Lawrence." Indiana

Jh

Nomads of the ocean. (Canadian sea fowl ser.) 5min 16-si-\$8.25 35-si-nf-apply Canadian gov't. 598.2

Bilingual titles

"A film showing Canadian sea fowl and dealing with the life and habits of the puffin, common murre, ringed murre, and razor-billed auk, and how they are protected under the Migratory Birds Convention Act." Indiana

Jh

Nomads of the sea. (Seeing Canada ser.) 5min 16-si-\$8.25 35-si-nf-apply Canadian gov't. 598.2

"Taken along the northern shores of the Gulf of St. Lawrence—the home of countless thousands of little known Canadian sea-fowl. . . Contains many . . . views of Gulls, Murres, Eider Ducks, Cormorants, and other rare birds nesting in their native haunts." Producer

[Useful in] biology and nature study [classes] Am. museum of nat. hist.

el-jh-sh

Our animal friends and foes. 10min 16-si-\$10.80 35-si-f-nf-apply Bray 598.2
 "Advocates preservation of bird life to counterbalance annual losses in crops destroyed by animal and insect pests."
 Producer el-jh

Our common birds. (Ford educational library ser.) 1R 16-si-\$15 35-si-nf-\$40 Ford 598.2
 A study of many of our most common birds, such as the blue jay, woodpecker, hawk, owl and shrike

Pirates of the sky. (Nature study ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 598.2

By G. Clyde Fisher, of the American museum of natural history
 Life and habits of some common waterfowl and birds of prey
 el-jh Guide

Plover. (Secrets of life ser.) 9min 16-sd-apply 35-sd-f-apply Gaumont British 598.2

A study of the green plover showing details of the nesting site, the nest, eggs and brooding hen, the precautions taken to hide the nest from enemies, the hatching of the eggs, care and feeding of nestlings, and the attempts of the fledglings to leave the nest. It shows also the grown birds in flight and the catching of insects which plovers eat. Should be useful in nature study or biology classes
 Guide

Roosevelt, friend of the birds. 15min 16-si-\$15 35-si-nf-\$65 1929 Roosevelt house 598.2

"The romance of bird life, and the tragedy of the wanton slaughter, before refugees were set aside by President Roosevelt's executive order in 1903. T. R. in the open at the refuge on Pelican Island off the coast of Louisiana." Producer

Ruffed grouse. 12min 16-si-\$18 1930 Eastman 598.2

"Tells of the life history of the ruffed grouse, and may be used to advantage in nature study classes to typify the habits and activities of a large group of our fowl-like game birds. The courtship of the grouse. The nesting of the grouse. Development of the young. Activities of the young bird. Hand-reared grouse nesting in captivity." Indiana
 Guide

Some friendly birds. 15min 16-si-\$24 1930 Eastman 598.2

Birds that have similar tastes and habits, martins, chickadees and nuthatches, the house wren, bluebirds, woodpeckers—building nests, feeding their young and the "Spring dance" of the flickers
 el-jh-sh-c Guide

Sparrow hawk. 16min 16-si-\$20.23 35-si-f-nf-apply Bray 598.2

"Nest and eggs. Young at different ages. Mother and father birds. Feeding young." California

Wading birds. 12min 16-si-\$18 1931 Eastman 598.2

"Beach and marsh birds, adapted to wading, are featured in this study. Included are rare views of the adults, nests, eggs, and precocial young. The film units are: Sandpipers, Snipes, Plovers, Stilts and Avocets, Phalaropes, Herons." Producer
 jh-sh-c Guide

We are seven. (Secrets of life ser.) 9min 16-sd-apply 35-sd-f-apply Gaumont British 598.2

"A delightful study of a single family which leaves one with a feeling of satisfaction and a determination to watch at least one garden nest consistently when spring returns. The views from inside the nesting box are particularly interesting and one is left wondering how the lighting was managed so well. Young children would be relieved to hear that the parents continued to feed all their young ones and not only the few which kept their balance on the branch. [Useful in] nature study, biology and gardening [classes]" British film inst. el-jh-sh Guide

599 Mammals

Adventures of Peter. 12min 16-si-\$18 1931 Eastman 599

"Adapted to beginning classes in nature study. Stimulates interest in animals and their homes; their methods and means of protection, their relation to man's welfare. Peter, a fox terrier, goes on a camping trip with his master. They find a baby wildcat, common mole, ground squirrel, badger, armadillo, porcupine, hornet's nest, skunk kittens, owls, and black bears." Producer el Guide

Animals of the cat tribe. 8min 16-si-\$12 1933 Eastman 599

Includes the domestic cat and kittens; tiger and leopard kittens playing with children; lions and cubs. The differences in external appearance of these animals are pointed out but their close relation to the cat tribe is demonstrated by their behavior
 el

Baby beavers. 8min 16-si-\$12 1930 Eastman 599

"May either be used alone, or as an addition to the film 'Beavers' listed below;" Wisconsin

Short reel with simple titles, for small children. Baby beavers swim with their mother and try to climb on her back. Those succeeding are taken for a ride. The babies comb their fur with their paws, play in the sunshine, and in the nearby stream. Some climb over a dam while the rest swim and dive with their mother
 el Guide

Bears. 5min 16-si-\$6 1933 Eastman 599

American black bears, European brown bears, Malay bears, and polar bears are portrayed in action
 el Guide

Beavers. 15min 16-si-\$24 1930 Eastman 599

Animated and actual photographs of beavers repairing a dam and then lunching on bark. Views of trees they have cut, a canal they have made and of branches stored for food. A beaver combs his hair. Shows a cross country hike, the "musk heap" which serves as a guide to traveling beavers and a beaver giving the danger warning. Pictures of homes and of the young
 jh-sh Guide

Beavers at home. 2R 16-si-loan 35-si-nf-loan 1934 U.S. agric. 599

A Bureau of biological survey film
 "Beavers at work repairing dams and felling trees; beaver houses; studies of baby beavers." Producer

Bre'r Rabbit and his pals. 15min 16-si-\$24
35-si-nf-\$60 1929? Films of commerce
599

Animals of the "rodent family"—rabbits, squirrels, prairie dogs, woodchucks, mice, jerboas and marmots with a close-up working skeleton of the jaws that distinguish this family. The story of hibernation

Cat animals. (Living natural history ser.)
¼R 16-si-\$9.50 Bell & Howell 599

By Raymond L. Ditmars of the Bronx zoological park. Interesting film on the lion, tiger and leopard

Chumming with chipmunks. 14min 16-si-
\$15.72 35-si-f-nf-apply Bray 599

Shows the characteristics of the little striped chipmunk. Made by William L. and Irene Finley

Cougar hunt. 1R 16-si-loan 35-si-nf-loan
1931 U.S. agric. 599

"Methods followed by Government hunters in predatory-animal control work, with special reference to the mountain lion." Producer Jh-sh

Cougar, the killer. 3R 16-sd-\$40 Gutlohn
599

A Master art production. Narrator: Edwin C. Hill
Jay C. Bruce hunting cougar in the beautiful hills of California, assisted by his dogs. An exciting episode amid lovely scenery

Furry creatures. (Nature study ser.)
12min 16-si-\$24 35-si-nf-\$80 prior 1927
DeVry 599

By G. Clyde Fisher of the American museum of natural history
"The appearance and habits of some rabbits and hares, squirrels, woodchucks or groundhogs, prairie dogs, otters and beavers." Texas
el-Jh Guide

Jungle giants. 11min 16-sd-rent \$1.50 1934
Bell & Howell 599

Giraffe, crocodile, hippo, lion and elephant at home
el-Jh-sh-c

Monkeys and apes. 8min 16-si-\$12 1933
Eastman 599

Habits of species from both the Old and New Worlds. South American monkeys feeding on fruits and climbing. Old World monkeys, although lacking the power to grasp with the tail, are seen to be completely at home in the trees. Among the apes shown are dog-faced baboons, mother and baby orang-utan, a young chimpanzee, and babies of the giant gorilla
el

Our four-footed helpers. 15min 16-si-\$24
35-si-nf-\$60 1929? Films of commerce
599

The cow, buffalo, gnu, giraffe, deer and similar quadrupeds are shown in this group of the ruminant family
el

Raccoon. 8min 16-si-\$12 1930 Eastman
599

"Life of this inquisitive and friendly little fellow is shown 'at home'—as he fishes for crawfish in a stream, catches one,

washes and eats it—and as he plays in the trees before he starts for his home in a dead tree stump." Producer
Guide

Seals and walruses. 5min 16-si-\$6 1933
Eastman 599

"Fur seals are seen at their native rookeries in Alaska. Close views reveal a herd swimming, walking on shore by means of their flippers, and guarding and mothering their young. Very large seals, called 'sea elephants,' are shown at play. Walruses, fat and clumsy, parade before the camera." Producer el

Three jungle giants. 5min 16-si-\$6 1933
Eastman 599

"Close views of Indian and African elephants with their wrinkled skins, up-turned trunks and large, floppy ears . . . rhinoceros wallowing in muddy water, and a young hippopotamus walking beside a small child." Producer el

Where the moose runs loose. 14min 16-si-
\$16.55 35-si-f-nf-apply Bray 599

"Taken in the heart of New Brunswick. Some extraordinary action pictures of moose, both on land and in water. . . Gives one an idea of the splendid big game possibilities of this part of Canada. Of special interest to all lovers of the outdoor life and wild game." Texas

600 USEFUL ARTS

610 MEDICINE

Dan's decision. 30min 16-si-loan 35-si-nf-
loan 1929 Am. osteopathic assn. 610

A vocational film showing how a high school student decides to become an osteopathic physician. His life at college is depicted and his successful establishment with a general office practice

Doctor. (Vocational guidance ser.) 12min
16-is-\$24 35-si-nf-\$80 prior 1927 DeVry
610

A vocational film by Fred C. Smith, formerly editor, Magazine of vocational guidance, Harvard university

"Training necessary to qualify; medical schools, clinics, hospitals, an actual operation; the general practitioner; the specialist; the value of a doctor's services to a community; financial and social rewards and disadvantages; nursing as a profession; duties, training, qualifications necessary for success." Indiana
Jh-sh Guide

611 Anatomy

Body framework. 15min 16-si-\$24 1931
Eastman 611

"Shows how the skeleton determines shape and size of the body and how it protects the vital organs. Demonstrates details of bone structure and composition changes during growth, mending a fractured bone; relation of sunlight and cod liver oil to bone development and joint action." Producer
el-Jh-sh Guide

Muscles. 15min 16-si-\$24 1931 Eastman 611

"The structure and the use of muscles are strikingly presented by means of actual photography and animations. The film may be used, not only to teach the facts involved, but also to provide a fresh approach to the consideration of habits of exercise and posture. Structure and properties of muscles. Muscles in action." Indiana ei-jh-sh-c Guide

612 Physiology

Man. (General science ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 612

"Amoeba, lowest form of life. Man, the highest. Diagram showing the heart, lungs, alimentary canal, stomach, nervous system, eye, ear, etc. How connected with brain." California ei-jh Guide

612.1 Blood and circulatory system

Action of the human heart. 8min 16-si-\$7.11 35-si-f-nf-apply Bray 612.1

Shows actual dissection of the human heart, demonstrating in detail its construction. Animated diagrams. The action of the living heart is seen at normal rate and in a slow-motion picture sh

Blood. 12min 16-si-\$18 1929 Eastman 612.1

"Illustrates the separation of plasma from blood cells, protein and salts from plasma—staining cells—counting red blood corpuscles—how white blood cells reach the body tissue—clotting of blood." Producer Jh-sh Guide

Circulation. 15min 16-si-\$24 1929 Eastman 612.1

Tracing the human circulatory system, a comparison of the human heart with that of the frog, showing the cycle of pulmonary circulation by animations and photography Jh-sh Guide

Circulatory control. 15min 16-si-\$24 1930 Eastman 612.1

"Illustrates the pressure of blood in the arteries—methods of measuring blood pressure—the structure and work of the veins—and nature's method of vaso-motor control." Producer Guide

Heart and how it works. (Human body ser.) 1R 16-si-\$35 35-si-f-nf-apply Bray 612.1

"Representing actual dissections of the human heart, demonstrating in detail the construction of its chambers, partitions, valves, and cords. The action of the living heart is seen at the normal rate and in slow motion." Iowa state college

Microscopic view of blood circulation. 7min 16-si-\$20 35-si-nf-\$30 1930? Scientific film 612.1

Produced by Charles F. Herm

Shows the course of blood and lymph thru the body, action of a living turtle heart, expansion and contraction of the arteries, the arterial, venous and capillary flow of the blood in the vascular system of a chick embryo by microscopic and stop-motion photography Jh-sh

Valves of the heart in action. 1/2R 16-si-\$15 35-si-f-nf-\$25-\$20 Am. heart assn. 612.1

Made by the firm of Carpenter-Goldman, specialists in photography of this character. Intended for medical students, medical societies, etc.

"Shows the valvular action of the heart, as demonstrated by Johannes Gad, and the arrangement of the apparatus. Then the systolic and diastolic movements of the heart as it lies on the table are shown. Next, the interior is pictured in action—a rare photographic feat accomplished by a clever method of lighting the interior cavities through the windows. Animated diagrams explain and amplify the scenes of the heart valves as well as the flow of the blood and the action of the heart muscle." Producer

612.2 Respiration

Breathing. 15min 16-si-\$24 1929 Eastman 612.2

"Scenes and animations stress the importance of good lungs, and explain the action of the diaphragm, breathing, lung structure, and function." Indiana ei-jh-sh Guide

Breathing. 12min 16-sd-apply 35-sd-f-apply Gaumont British 612.2

Moving diagrams give illustrations of various methods of recording inhalation and exhalation Guide

How we breathe. 10min 16-si-\$15.20 35-si-f-nf-apply Bray 612.2

The formation of human lungs and how they function in purifying the blood is shown by animated drawings

612.3 Digestion

Digestion. 15min 16-si-\$24 1929 Eastman 612.3

"Covers the complete digestive tract—action of saliva upon food—swallowing—stomach structure—digestion of food—structure and action of both intestines." Producer ei-jh-sh Guide

Physiology of mastication. 2R 16-si-rent \$1 35-si-nf-rent \$1 Am. dental assn. 612.3

"Study of jaw movements of various animals exhibiting types of mastication as an introduction to study of human beings. Animated skulls and cartoons are synchronized with mandibular movements of animals. The film shows that 'three point contact' and 'bilateral balanced occlusion' never occurs in lower animals during process of incising and chewing tough resistant food." Producer

A technical film for use of dental students, dental societies, etc.

612.6 Reproduction. See 613.9

612.76 Locomotion

From creeping to walking. 10min 16-sd-\$50 35-sd-nf-\$100 1934 Erpi 612.76

By Dr. Arnold Gesell, director, Yale clinic of child development

This film illustrating the correlation of abilities continues the study begun in "Posture and locomotion" listed below c Guide

Posture and locomotion. 10min 16-sd-\$50
35-sd-nf-\$100 1934 Erpi 612.76

By Dr Arnold Gesell, director, Yale clinic of child development

"Deals with the steps by which the infant advances from a helpless state of immaturity in which he only kicks and wriggles with ineffectual movements to the stage where he is able to change position and posture at will by pivoting, creeping, standing, cruising, walking, and running. The film is a . . . study of these phases of the child's development from the age of 8 to 80 weeks. Thirteen age levels are portrayed in a consecutive biographic series." Producer
c Guide

612.78 Voice

Human voice. 12min 16-si-\$14.16 35-si-f-nf-apply Bray 612.78

"Combination of X-Ray photography, ordinary photography, and animated drawings, to demonstrate the physiological functions of the nasal passage; windpipe, gullet, epiglottis, vocal cords, larynx, lips, and tongue in producing sound." Indiana

613 Hygiene

Analysis of exercises performed with a rhythmical swing. (Physical education ser.) 10min 16-sd-apply 35-sd-f-apply Gaumont British 613

"Class work and 'close-up' photography of individual boys and girls." Producer
Guide

Cleanliness—keeping the hair clean. 8min 16-si-\$12 1931 Eastman 613

"A dog, a beaver, and a goose take care of their coats. The proper methods of shampooing and drying the hair are shown, as well as the care of brush and comb." Producer
ei-jh Guide

Drinking health. 2R 16-si-loan 35-si-nf-loan 1928 Films of commerce 613

Also available for elementary grades in a 1R version (16-si-loan 35-si-nf-loan)

New York City's water supply and how it is purified. Importance of water and amount to be consumed daily. Giving drinking water to football players, factory and office workers. Need for individual drinking cups and sanitary dish washing. "Useful in biology, general science, hygiene, nature study and domestic science [classes]." Am. museum of nat. hist.
jh-sh Guide

Feet. 15min 16-si-\$24 1931 Eastman 613

Prepared in cooperation with the American posture league

Details of structure and arrangement of the arches; best mechanical use of the foot; effect of improper shoes. The relation of heels to posture, and the characteristics of fallen arches. How closely related good feet are to efficiency and to the enjoyment of life
ei-jh-sh Guide

General health habits. (Health and hygiene ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 613

By Benjamin C. Gruenberg, formerly of the American association for medical progress

"Encourages the formation of habits conducive to health, points out the reasons for such a program, and indicates the value of fresh air, sunshine and cleanliness." Colorado
ei Guide

Good posture wins. 2R 16-si-loan 35-si-nf-loan 1931 U.S. agric. 613

An Extension service film

"Good posture as a factor in costume-review contests and the importance of good posture in 4-H girls' club work." Producer

Kid comes through. 30min 16-si-apply 35-si-f-nf-apply prior 1927 Nat. tuberculosis assn. 613

Produced by New York tuberculosis and health association

"A drama of child life in a big city, teaching the value of physical fitness, fresh air, wholesome food, cleanliness and good habits. Excellent for boys and has strong Boy Scout interest." N.Y. (State). Dept. of health
ei

Knowing gnome. 1R 16-si-apply 35-si-nf-apply Soc. for visual educ. 613

"Primarily to impress upon children the value of personal hygiene. One little gnome takes in hand two children, Betty and Bobby, and leads them to happiness by showing them how to take care of their health. Excellent." Texas
Guide

Physical education—boys. (Physical education ser.) 9½min 16-sd-apply 35-sd-f-apply Gaumont British 613

"A twenty minute (physical education) lesson with boys average age 10 in a big city." Producer
Guide

Physical education—carriage. (Physical education ser.) 11min 16-sd-apply 35-sd-f-apply Gaumont British 613

"Shows the correct way of standing, sitting and walking." Producer
Guide

Physical education—children aged 4-6. (Physical training ser.) 13min 16-sd-apply 35-sd-f-apply Gaumont British 613

"Children 4 and 5: Development through Free Activity, Independent Action, Self Control, Lightness and Spring, Flexibility, Alertness and Response. Children 5 to 6: *Introduction to Lesson*—Children put down their mats, then run into playground to practise anything they like, for a very short time. Under the teacher's direction change to 'Aeroplanes.' Run to two lines, and from these race across playground, avoiding collisions. Run to fetch mats, then jump round them. *Trunk Exercise*—sit cross-legged on mats, try to touch the ground in front with head and stretch up again. Lying: kick legs freely in the air. Lower legs slowly with straight knees. Free play on mats. At signal, put mats away. Free skipping. *Balance Exercise*—from skipping, jump to crouch with finger support, change to toe standing with arms sideways and back to crouch. Brisk walk. *Jump*—Jumping the Fish (painted on the playground). *Game*—Mrs. Bond and her ducks. *Alternative Game*—Play with balls: 1 Bouncing, 2 Throwing high, 3 Throwing up and trying to catch, 4 Throwing forward and aiming at target, 5 Kicking. A method of collecting small balls which avoids congestion. *Ending of Lesson*—

Physical education—Children aged 4-6—*Continued*

fetch mats and go for a brisk walk. Run into school. . . Spontaneous and natural and the teacher directs and takes part in all the activities. . . The children's own voices are heard in the game 'Frog in the sea can't catch me'. . . The work seen does not suggest special coaching, and preparation, it gives a happy fresh impression, and whilst it is good, it is not too good, but of the quality than any keen teacher may expect from her class. . . For Elementary, Secondary, Kindergarten and Nursery school teachers and . . . parents of young children." British film inst.

Guide**Physical education—children aged 7. (Physical training ser.) 12min 16-sd-apply 35-sd-f-apply Gaumont British 613**

Typical lessons in physical education for top class of children in an infant school

Guide**Physical education—girls. (Physical education ser.) 19min 16-sd-apply 35-sd-f-apply Gaumont British 613**

"This film shows a typical lesson for girls of eleven. . . before lessons with portable gymnastic apparatus are taken. . . It is comprehensive and the activities are repeated often enough for the viewer really to take them in. . . The work shown is really interesting and useful, the film is produced in the most professional manner, there are no dead points, and the lighting is brilliant—skillful alternation of near views of sections of the class, and of general views is made. These planned effects contribute to the understanding of the lesson as a whole, without disturbing its continuity. In this film a beautiful picture of modern physical training school work has been made, and the good posture, control and vivacity shown by these girls will make an appeal to the general public as well as to teachers. . . [A] classroom instruction film for physical training teachers and boys and girls in Elementary and Secondary schools; general interest film for all." British film inst.

Guide**Physical education—rural school. (Physical training ser.) 11min 16-sd-apply 35-sd-f-apply Gaumont British 613**

"A twenty minute lesson on physical education, taken with boys and girls of the middle group of a three teacher village school." Producer

Guide**Posture. 15min 16-si-\$24 1931 Eastman 613**

Prepared in cooperation with the American posture league

"Demonstrates the effect of posture upon the size of the chest, the position of the abdominal organs, and general personal appearance. Shows how good sitting and standing posture may be developed." Kansas

el-jh-sh Guide**Posture. (Health and hygiene ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 613**

By Benjamin C. Gruenberg, formerly of the American association for medical progress

"Good feet, standing posture, sitting posture, corrective exercise." Producer

Guide**Red-head. 15min 16-si-loan 35-si-nf-loan Cereal soaps 613**

"The importance of proper care of the hair is emphasized. The film is well adapted to grade school pupils." Illinois

el-jh Guide**Skin. 15min 16-si-\$24 1930 Eastman 613**

"The skin of the fish, crocodile, ostrich, elephant and bear; the human skin is seen through a magnifying glass; structure of the skin; growth of cells; secretion of sweat; structure of the hair and nails." Iowa state college

el-jh-sh Guide**Working for dear life. 15min 16-si-loan 35-si-nf-loan 1921 Metropolitan life 613**

"Stresses in interesting story fashion the importance of having a thorough physical examination made annually." Nat. safety council

el-jh-sh-c**613.2 Food. Dietetics****Food. (Health and hygiene ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 613.2**

By Benjamin C. Gruenberg, formerly of the American association for medical progress

"Suggests proper food habits and practices generally conducive to health. As a background, some general information on the digestive system is furnished." Colorado

el-jh Guide**Food and growth. 15min 16-si-\$24 1930 Eastman 613.2**

"A feeding experiment with white rats, actually carried on in a sixth-grade classroom, is used to demonstrate the food value of milk as compared with the values of coffee and of candy. Unit one shows the assembling of a rat cage, and the naming and weighing of three rats used in the demonstration, and the system of feeding. Unit two demonstrates the cleaning of the cages, the renewal of the foods and the protection of the rats against chilling. Unit three presents the comparative growth records of the three rats, over a period of four weeks. The feeding is then changed, and the three rats are compared with another rat from the same litter but fed with milk throughout the entire period." Iowa univ.

el-jh-sh Guide**Food makes a difference. 2R 16-si-loan 35-si-nf-loan 1930 U.S. agric. 613.2**

A Bureau of home economics film

"Results of proper nutrition for children; how laboratory tests are conducted to determine the effects of various foods; development and growth of flesh and bone." Producer

Good foods—bread and cereals. 8min 16-si-\$12 1931 Eastman 613.2

"Feeding chickens bread and milk, feeding chickens grain, feeding horse and cows grain, making oatmeal, bread and cereal for breakfast, cereal and fruit for supper, instruction in mastication and table manners." Ohio

el Guide

Good foods—a drink of water. 8min 16-si-\$12 1931 Eastman 613.2

"A horse, a dog, cows, ducks, and a moose drinking. Children at school and play drink from 'bubblers' or paper cups, and learn to drink water before breakfast. Animated diagram indicates when glasses of water should appear in the day's schedule." Producer

el Guide

Good foods—fruits and vegetables. 8min 16-si-\$12 1930 Eastman 613.2

"Scenes show that vegetables and fruits are relished by different animals: rabbits, a hen, birds, and a saddle-horse. A boy eats green vegetables at dinner, and three girls have fruit as part of their school lunch. In closing scenes a number of fruits and vegetables appear in succession." Producer

el Guide

Too many pounds. 1R 16-si-loan 35-si-nf-loan Metropolitan life 613.2

Shows how modern comforts have weakened our muscles. Offers a reducing diet and exercise under the doctor's direction. How to cut down food calories is also demonstrated. The dangers of unwise reduction are stressed

jh

613.4 Cleanliness

Cleanliness—bathing. 8min 16-si-\$12 1931 Eastman 613.4

"Birds splash in their tub. Children demonstrate warm baths and cool showers. Scenes show an elephant bathing, a polar bear in its pool, a dog swimming, and, finally, children and adults bathing at a beach." Producer

el-jh Guide

Cleanliness—clean clothes. 8min 16-si-\$12 1931 Eastman 613.4

"Swans preen their feathers. A horse is groomed. A boy polishes his shoes, brushes his coat, takes a clean handkerchief, demonstrates proper use of a napkin. Girls are shown wearing aprons as they help in the home. Closing scenes indicate proper care of clothing when not in use." Producer

el-jh Guide

Cleanliness—clean face and hands. 8min 16-si-\$12 1931 Eastman 613.4

"A white rat cleans its paws. Scenes show an approved method of washing the hands, and handwashing at school. A cat cleans her own face, and then her kittens. A boy prepares himself for supper after outdoor play. A class is inspected for cleanliness." Producer

el-jh Guide

613.9 Sex education. Social hygiene

Too other numbers, such as 612.6, are sometimes used for this subject, in this catalog all material is included here. Films showing the reproduction processes in individual animals are classed with other material on those animals

Gift of life. 60min 16-si-\$108 35-si-nf-\$170 Am. social hygiene assn. 613.9

"Film of unusual scientific and educational excellence." N.Y. (State). Dept. of health

"Highly endorsed by the State Supervisor of Science of the State Department of Education, Austin, Texas." Texas

"Under guidance of a scientist, a boy makes field observations, collects specimens and sees through the microscope the processes of reproduction in lower forms of plant and animal life. Continuing to higher life forms, eggs are incubated and life and movement of the embryo shown at different periods. Animated diagrams make clear processes that cannot be photographed, and with logical sequence and easy transition the study progresses to mammals and human beings. In summary, with an apt comparison of embryos, the principles of reproduction are reviewed and shown to be the same in man as in other mammals." Producer

jh-sh

Reproduction in higher forms. (Science of life ser. no.3) 1R 16-si-\$35 35-si-nf-apply Bray 613.9

"Reproduction in fish, reptiles, birds and man. Human female's reproductive system, illustrated by animated anatomical drawings; representation of ovulation, fertilization, development of embryo and its nourishment. Delicately yet straightforwardly handled, for school use." California

"With a suitable lecture the film is very successfully shown to audiences of older boys and girls." Indiana

sh-c

Reproduction in lower forms of life. (Science of life ser. no.2) 1R 16-si-\$35 35-si-nf-apply Bray 613.9

"How the one-celled plant or animal reproduces by dividing; sexual reproduction in pond-scum and hydra; budding in hydra; structure of a flower, pollinization by insects; origin of seed." California

sh

Social hygiene for women. 30min 16-si-\$60 35-si-nf-\$95 1919 Am. social hygiene assn. 613.9

"A film analogous to the film . . . 'Venereal Diseases' (listed below), but adapted for women. Clearly, but with care and good taste thruout, it explains the anatomy and functions of organs, fertilization, cell division, development of the embryo (carried to the fully formed child), rôle of the placenta (dispelling the popular fallacy of 'maternal impressions'), and the essential facts regarding the venereal diseases. In dealing with the latter, only a minimum of clinical cases are shown. This picture is not to be considered self-explanatory, but should be used as illustrative material for lectures to women and older girls." Indiana

sh-c

Venereal diseases. 45min 16-si-\$75 35-si-nf-\$115 1918 Am. social hygiene assn. 613.9

"In the production of this film for men, and the corresponding film 'Social Hygiene for Women' (listed above) the thorough knowledge of physicians and the skill of artists expert in motion picture technique have been combined. Carefully prepared animated diagrams serve to make clear the anatomy of male and female reproductive organs and various physiological processes. This film for men deals with the pathology of gonorrhea, syphilis, and chancre, showing photographs of actual cases arranged in the order generally followed by experienced lecturers. This is distinctly designed to illustrate lectures to older boys and men on sex hygiene and prevention of venereal diseases." Indiana

sh-c

si - silent; sd - sound; f - inflammable; nf - safety; el - elementary; jh - junior high; sh - senior high; c - college

614 Public health

Disease carriers. (Health and hygiene ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 614

By Benjamin C. Gruenberg, formerly of the American association for medical progress

"Breeding places and life cycle of flies and mosquitoes. Methods of destroying. Dangers of rat pest. Contaminated water." California el-jh Guide

How disease is spread. (Science of life ser. no.6) 1R 16-si-\$35 35-si-f-nf-apply Bray 614

"A series of dramatic episodes showing how bacterial infection is transmitted thru carelessness in the ordinary contacts of life; spread of infections; necessity of careful habits, and the proper cleaning of food materials." Indiana el-jh-sh

How to prevent disease. (Science of life ser. no.7) 1R 16-si-\$35 35-si-f-nf-apply Bray 614

Photographs and animated drawings
"Contamination of water supply thru ignorance and carelessness; reduction of death rate following preventive measures; pasteurization; quarantine; vaccination; antitoxin; Schick test; death rates from prevalent contagious diseases; venereal disease and the need of open, courageous discussion thereon." Indiana

Keeping out bad food. 1R 35-si-nf-loan 1923 U.S. agric. 614

A Food and drug administration film
"Inspection of imported food under the Food and Drugs Act as a protection against fraudulent and unwholesome articles; inspection of tea under the Tea Act." Producer

Serving the community. (Citizenship ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 614

"Mary Willis has typhoid fever. Principal of school explains causes and tells of house-fly as common carrier. School plans campaign against fly. Mapping out town and breeding spots. Canvass locates places. Individual owners forced to clean up." California el-jh Guide

614.8 Safety

For safe driving of automobiles, see 629.213

Artificial respiration. 1R 35-si-nf-rent \$2.50 Nat. safety council 614.8

"The Schaefer prone pressure method and its application in cases of electric shock, drowning and carbon monoxide poisoning are clearly demonstrated in this film. The simple directions which are given should be of great value to garage men, public service employees, Boy Scouts and others in case of emergencies requiring this knowledge of first aid." N.Y. (State). Dept. of health el-jh-sh

Ask Daddy. 30min 35-si-nf-\$225 1923 Nat. safety council 614.8

"Deals with home and street safety and firearms. . . A small boy, his sister, their

parents, and another boy are shown among hazards of modern life in contrast with cave man days." Producer el

Carbon monoxide, the unseen danger. 15min 16-si-loan 35-si-nf-loan prior 1927 Bur. of mines 614.8

Made in cooperation with the Hupp motor car corporation

"Shows how this deadly gas may be encountered in workshops, garages, and homes, and points out ways of preventing accumulation of the gas. Visualizes methods of reviving victims." Nat. safety council

"[Useful in] civics, biology, general science, chemistry and hygiene [classes]" Am. museum of nat. hist. Jh-sh

Every swimmer a life-saver. 1R 16-si-apply 35-si-nf-apply Soc. for visual educ. 614.8

"Shows the most approved and latest methods of rescue and resuscitation, including first aid methods as practiced by Boy Scouts." Nat. safety council Guide

First aid—care of minor wounds. 5min 16-si-\$6 1932 Eastman 614.8

"Stresses the importance of immediate care for even the slightest wound. Demonstrates in detail the proper method of applying sterile dressings." Producer Jh-sh Guide

First aid—carrying the injured. 5min 16-si-\$6 1932 Eastman 614.8

"Demonstrates the making and using of stretchers in emergencies, and the methods of carrying injured persons without stretchers." Producer Jh-sh Guide

First aid—control of bleeding. 12min 16-si-\$18 1932 Eastman 614.8

"Shows, with actual photography and animated diagrams, accepted methods of control of arterial and venous hemorrhage in various areas of the body." Producer Jh-sh Guide

First aid—life saving and resuscitation. 15min 16-si-\$24 1932 Eastman 614.8

"Demonstrations in water and (in slow motion photography) out of water, of various approaches and holds used in rescuing the endangered swimmer. Methods of resuscitation shown include use of the inhalator." Producer Jh-sh Guide

International ice patrol. 1R 16-si-\$25 35-si-nf-\$75 Harvard 614.8

"The film is interesting as an account of the hazardous and exciting service of the International Ice Patrol which is conducted by the United States Coast Guard and supported by the principal maritime nations." Massachusetts

Many views of glistening icebergs

Learn and live. 15min 16-si-loan 35-si-nf-loan prior 1927 Bur. of mines 614.8

Daily occurrences in life of mine official and his family. Members of family attend a first-aid class of miners and are instructed in the four most important points of first-aid—artificial respiration, control of bleeding, treatment for shock, and application of sterile dressing for all wounds. The Schaefer method of artificial respiration is demonstrated, placing of improvised tourniquet, applying sterile dress-

Learn and live—Continued

ings to cuts, and dressing of simple fractures of forearm. Rescue from drowning of mine official's daughter and saving of her life through artificial respiration
 "Useful in civics [classes]" Am. museum of nat. hist.
 sh

Oxygen breathing apparatus. 15min 35-si-nf-loan prior 1927 Bur. of mines 614.8

Made in cooperation with the Peabody coal company

"Shows details of operation of Paul, Gibbs, Fleuss-Davis, and McCaa apparatus, used in mine rescue work and in deadly atmospheres; separate parts of apparatus, including oxygen bottle, reducing valve that lowers pressure from 2,000 to 3 pounds, regenerator for removing carbon dioxide from exhaled air, saliva trap and release valve, and by-pass valve that permits wearer to obtain oxygen direct from oxygen bottle; charging oxygen bottle; charging regenerator with chemicals; sterilizing and cleaning mouthpiece and tubes; and assembling apparatus. Mine rescue crew wearing apparatus is seen exploring mine and testing mine atmosphere with flame safety lamps and carbon monoxide detectors; and canary bird used for detecting carbon monoxide is pictured overcome by gas, then treated and revived." Producer

Safety at sea. 15min 16-si-\$24 1929 Eastman 614.8

"Safeguarding navigation, the light-house, how the beacon works, the fog bell, lightships, buoys, whistling buoys, acetylene light buoys, flashing buoys, bell buoys. The coast guard, a sea patrol, iceberg warnings, the crew's nest, cadet training, life boat drill, the life line, coast guard stations. A rescue, distressed liner, broadcasting the SOS, use of rockets, putting on life belts, firing the life line, using the breeches buoy." Ohio
 el-jh-sh Guide

Street safety—for advanced grades. 15min 16-si-\$24 1933 Eastman 614.8

Made in cooperation with the National safety council and American automobile association

"Graphically sets forth the safety principles that should govern the outdoor activities of older children, and that apply to adults as well." Indiana

A half-reel subject prepared especially for primary grades is also available (8 min 16-si-\$12 1933 Eastman)
 jh-sh Guide

614.84 Fire protection and prevention

For the physics of fire, see 536. For forest fires, see 634.92

Bad master. 11min 16-si-sd-loan 35-si-sd-f-nf-loan Aetna 614.84

"Produced to show some of the more common errors made in connection with the use of fire. This picture shows a typical American family committing some of the mistakes that are so often made and which result in the loss of thousands of lives and the destruction of millions of dollars worth of property by fire every year." Utah

"The film is of general interest." Illinois
 Guide

Fire prevention. 15min 16-si-\$24 1930 Eastman 614.84

"Fire resisting construction, riveters at work, pouring concrete, testing windows, use of asbestos. Electrical insulation, testing insulation, effect of faulty insulation, lightning rods, animation showing action of lightning rods, testing electric irons, animation of electric iron. Safeguarding inflammable materials, disposing of hot ashes, disposing of burning matches, testing matches, spontaneous ignition, dangers of gasoline cleaning, the rubbish heap." Ohio

el-jh-sh-c Guide

Fire protection. 15min 16-si-\$24 1929 Eastman 614.84

"Contrasts old and modern equipment and methods of fighting fires. Explains the operation of extinguishers, the principle of cooling, blanketing or smothering fires, and a lesson in fire safety." Producer
 el-jh-sh Guide

Fire safety. 15min 16-si-\$24 1930 Eastman 614.84

Annual losses from fire are shown to be great. Suggests ways of preventing fires and shows what to do in case of fire. School children are taught methods of fire prevention

el-jh-sh-c Guide

616 Pathology. Diseases**616.01 Bacteriology. See 589.95****616.2 Diseases of the respiratory system****Conquest of diphtheria. 15min 16-si-loan 35-si-nf-loan 1933 Metropolitan life 616.2**

Produced by Carlisle Ellis. Revision of a film first produced 1924

"Skipper, aged four, and the youngest member of an average American family, has fallen ill. As there are many cases of diphtheria in town, Dr. Simmons is called in. He finds that Skipper has only raided the family ice-box. However, precautions are taken and Skipper is given his first injection for diphtheria immunization. Dr. Simmons tells Skipper's mother of the days when his grandfather practiced medicine. The film fades back to little Betty and Johnny Adams in 1860, showing how, because of the lack of preventive measures, Betty Adams lost her life from diphtheria. Dr. Simmons also tells the story of Von Behring's first antitoxin injection in 1891, which is portrayed in a Christmas scene. The next generation of Betty and Johnny Adams in 1900 are shown saved by antitoxin. The doctor then shows how simply we can prevent diphtheria by toxin-antitoxin or toxoid." Distributor
 el-jh

Diphtheria. 15min 16-si-\$24 1930 Eastman 616.2

"Diphtheritic throat is compared with a normal one—the complete preparation and use of antitoxin are demonstrated—methods of modern diphtheria control and of preventing the disease by the administration of toxin-antitoxin are shown." Producer
 el-jh-sh Guide

616.24 Tuberculosis

Consequences. 30min 16-si-apply 35-si-f-nf-apply prior 1927 Nat. tuberculosis assn. 616.24

"A popular picture on the early diagnosis of tuberculosis which teaches the lesson that 'early discovery hastens early recovery.' Suitable for any audience and very helpful in tuberculosis campaigns. Interesting, clear-cut story with a happy termination." N. Y. (State). Dept. of health
"For lay audiences." Producer

Tuberculosis and how it may be avoided. 15min 16-si-\$24 35-si-nf-\$75 1930 Eastman 616.24

"By scenes and animations, tubercle bacilli are shown growing in the laboratory and in the lung tissue of the human body. A tuberculin test is given, a positive reaction is obtained, and the daily routine at a preventorium is pictured." Producer
el-jh-sh-c Guide

617.6 Dentistry. Care of the teeth

Bobby's bad molar. 15min 16-si-apply 35-si-nf-apply McCrum 617.6

"Synopsis: Bobby has neglected his teeth and is paying the penalty by doing poor work in school, being backward in athletics, etc. One day his teacher sends him to the school dental hygienist, who examines his teeth. The hygienist explains Bobby's teeth troubles to him and urges him to go to the dentist at once and receive attention. Bobby takes her advice and finally becomes an enthusiastic advocate of the proper care of teeth." Am. dental assn.

"This is very interesting for younger boys and girls, as the leading characters are two school children. The film presents the facts of Dental Hygiene in a very simple but convincing manner." Iowa univ. el

Care of the teeth. 15min 16-si-\$24 1930 Eastman 617.5

Made with the co-operation of the American dental association and the Rochester dental dispensary

Second in the series of films about teeth and may be used with or without the first, "How teeth grow" listed below

"Close-up of set of beautiful teeth, girl eating proper diet for good teeth, animation of parts of teeth, benefit of chewing for good teeth, effects of stain on teeth, removing stain, removing tartar, how to brush teeth, starting points of decay, filling a cavity, effect of abscess, cause of narrow dental arches, fever teeth, straightening teeth, dental floss." Ohio
el-jh-sh Guide

Clara cleans her teeth. 15min 16-si-apply 35-si-nf-apply McCrum 617.6

"Clara, aged 10, always neglected her teeth until she learned, through her playmates, the importance of daily brushing and care." Am. dental assn.

"Popular film on the care of the teeth. Especially suitable for children." N.Y. (State). Dept. of health

"Holds interest thruout and teaches a lesson forcefully." Indiana

How teeth grow. 15min 16-si-\$24 1930 Eastman 617.6

"Traces the development of teeth from infancy to adult life, showing their structure and arrangement. Animated drawings and models show the position of the

teeth in the mouth. Labels indicate the structure of a tooth and the nerves and blood vessels which surround it. Diagrams of development at successive ages show how teeth are formed and break through the gums in definite order. Actual photography of children is introduced to show the teeth in position at each age level. A complete temporary set of a six year old child is shown, and animations demonstrate how this temporary set is pushed out by the insistent permanent teeth." Producer

"Recommended for the teaching of hygiene, and is designed to build up an understanding of the reasons for approved practices in the care of the teeth." Iowa univ. el-jh-sh Guide

Teeth. (Health and hygiene ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 617.6

By Benjamin C. Gruenberg, formerly of the American association of medical progress

"To inform the pupils on the growth, structure and methods of caring for the teeth; the diseases which are liable to occur and their relation to general health; and to encourage the formation of correct habits regarding the care of teeth." Iowa univ. el-jh Guide

Tommy Tucker's tooth. 15min 16-si-apply 35-si-nf-apply McCrum 617.6

"Tommy gets a 'job' but Jimmy Jones finds that it is necessary to be cleaned up before he will have success. The proper method of cleaning the teeth is shown." Iowa state college el

X-ray on teeth. 5min 16-si-\$7.50 35-si-nf-apply Bray 617.6

"X-Ray photographs of infected tooth sockets and other curable diseases of the mouth; their destructive effect upon the health; importance of care and frequent examination." Producer

617.7 Care of the eyes

Eyesight. (Health and hygiene ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1924 DeVry 617.7

By Benjamin C. Gruenberg, formerly of the American association of medical progress

"Analysis of the structure and operation of the eye, illustrated by comparison with the camera. The action of light rays through various lenses shows the possibility of correcting near and far sight, astigmatism, and other defects. Shows blind children reading and writing." Texas
el-jh Guide

How you see. 8min 16-si-\$8.80 35-si-f-nf-apply Bray 617.7

The theory of sight explained by animated diagrams and photography; principles common to the eye and to the combination of lens, diaphragm and sensitive plate of the camera

How's your eyesight? 8min 16-si-\$11.79 35-si-f-nf-apply Bray 617.7

"Explains common ailments of the human eye, the causes, and remedies. Combines animated diagrams with actual photography." Producer

Preventing blindness and saving sight. 20min 16-si-loan 35-si-nf-loan 1930
Nat. soc. for the prevention of blindness 617.7

"Shows the causes of blindness, and the simple precautions which, if observed, will preserve the vision of many people." Kansas

"Excellent film for advanced health classes, school nurses, community welfare organizations, etc. It is a fine treatise on the various causes of blindness." Wisconsin

617.8 Care of the ears

How we hear. 6min 16-si-\$8.82 35-si-f-nf-apply Bray 617.8

"A study of the structure and functions of the human ear, shown by animated diagrams and photography." Texas

Out of the silence. 1R 16-sd-apply 35-sd-f-nf-loan Western electric 617.8

A presentation with dialog and musical setting of the problem confronted by the hard-of-hearing. Story starts with Beethoven composing his Ninth Symphony and then changes to show how school children suffering from impaired hearing may be helped by ear aids developed by Bell telephone laboratories engineers

619 Veterinary medicine

Clean herds—and hearts. 3R 16-si-loan 35-si-nf-loan 1924 U.S. agric. 619

A Bureau of animal industry film

"The story of a community campaign for the eradication of animal tuberculosis; relation of animal tuberculosis to human health; economic losses due to the disease; opposition to the campaign from various sources, and how it was overcome; how the campaign is organized, with cooperation from farmers and city organizations. Altho this film was made some time ago, it tells a splendid story of bovine tuberculosis and its relation to human beings." Iowa state college

620 ENGINEERING

Engineer. (Vocational guidance ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 620

A vocational film by Fred C. Smith, formerly editor, Magazine of vocational guidance, Harvard university

"Uses the civil engineer as a type. It shows the school training necessary as well as the various steps in after life thru which one must pass to qualify as chief engineer; the construction of the Brooklyn Bridge and the East River tunnel from preliminary plans to the completed structure." Indiana

Jh-sh Guide

621 MECHANICS AND MACHINERY

Simple machines. 15min 16-si-\$24 1929 Eastman 621

"Built up, step by step, from the common lever to combinations of all six simple machines, this film will promote an understanding of the operating principles of all complex machines." Wisconsin

Jh-sh-c Guide

Skilled mechanic. (Vocational guidance ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 621

A vocational film by Fred C. Smith, formerly editor, Magazine of vocational guidance, Harvard university

"The skilled mechanic at work and the conditions under which he labors, the social value of group work, the necessity for skill and speed which comes only after a long period of experience, the necessity for a knowledge of related matters, such as blue-print reading, proper selection of material, different methods of construction, etc., the diversity of skilled crafts in this group." Texas

Jh-sh Guide

Story of power. 45min 16-si-loan 35-si-nf-loan prior 1927 Bur. of mines 621

Made in cooperation with Stone and Webster engineering corporation from whom it may be secured in a 2R version under the title "Power" (16-si-loan 35-si-nf-loan)

"Pictures early development of steam engines and Stephenson's locomotive, 'The Rocket,' and demonstrates modern uses of electricity. Scenes, maps and animated diagrams illustrate production of electrical power by steam and water and its transmission over the country." Utah

el-jh-sh-c

621.1 Steam engineering

Modern trend in turbine design. 2R 16-sd-loan 35-sd-f-nf-loan General electric 621.1

"Describes various factors and influences entering into and affecting the design of modern steam turbines." Producer

Jh-sh

Steam power. 15min 16-si-\$24 1930 Eastman 621.1

"The evolution of the steam engine is shown, from the Newcomen atmospheric pressure type to the simple slide valve type. A pageant of nineteenth century locomotives concludes with an analysis of a modern locomotive." Wisconsin

Jh-sh Guide

Turbine with the solid rotor. 25min 35-si-nf-loan Westinghouse 621.1

"Showing by animation and actual scenes all the stages of manufacture of the steam turbine. . . Taken at the . . . South Philadelphia Works of the Westinghouse Electric & Manufacturing Company." Producer

621.3 Electricity. Applications

It is difficult to draw the line between 621.3, applications of electricity and 537, the theory. Many books take up both. In many schools, the satisfactory arrangement would be to combine these classes; and in most cases 537 would probably be the most satisfactory number. If subdivision is desired, 537.8 is number for applications. In this list, both 537 and 621.3 are used, to agree with the Decimal classification and with the practice in many libraries

Big deeds. 2R 16-si-loan 35-si-f-nf-loan General electric 621.3

"Through General Electric Company factory at Schenectady, N. Y. Huge hammer pounding 12,000-pound billet into shape. Immense electric ovens. Research laboratories. 900,000 volt Coolidge cathode tube.

Big deeds—Continued

X-ray. Broadcasting first television drama. Testing effects of lightning and other electrical experiments." California sh-trade

Heat and light from electricity. 15min 16-si-\$24 1930 Eastman 621.3

"This film, together with 'Water Power,' [class 621.312], 'Chemical Effects of Electricity,' [class 621.35], 'Magnetic Effects of Electricity,' [class 538], and 'Induced Currents,' [class 621.31] helps to impart a working knowledge of the principles of electricity." Wisconsin

"Clearly explains series and parallel circuits—Ohm's Law—manufacture and use of conductors, insulators, and lamps—arc furnaces and heating equipment." Producer Jh-sh-c Guide

621.31 Generation of electricity

Busybody. 16-si-loan 35-si-f-nf-loan General electric 621.31

"Departs from a conventional presentation by animating the 175 parts which are comprised in the smallest motor. After this little machine has built itself on the screen, a number of its practical applications are illustrated." Colorado

Induced currents. 15min 16-si-\$24 1930 Eastman 621.31

"Through the combination of photography and graphic animation, this film helps materially in teaching the difficult topics of armatures, commutators, collector rings, telephones, and mutual and self-induction." Wisconsin Jh-sh-c Guide

Power transformers. 2R 16-si-loan 35-si-f-nf-loan General electric 621.31

"Thirty-five years of engineering and manufacturing in the building of transformers pass in review in this picture, which contrasts the earliest transformer, weighing 20 pounds, with the latest, which weighs 100 tons." Kansas

621.312 Central stations

Conowingo. 3R 16-si-loan 35-si-nf-loan prior 1927 Stone & Webster 621.312

"The Conowingo hydroelectric development . . . located on the Susquehanna River . . . Acres of river bed made dry, steam shovels working many feet below the bed of the river, concrete being placed to build the power house and dam, a mile-long steel bridge blown up with dynamite, great pieces of machinery weighing hundreds of tons lowered into position . . . While the work is in full swing a great flood sweeps down the river and the fight to keep the rushing waters back adds interest to the drama." Producer sh-c

Electric power in the southern Appalachians. 15min 16-si-\$24 1929 Eastman 621.312

"Characteristic progress in industry and the changes in living conditions, resulting from the development of hydro-electric power in any vicinity, are exemplified in this film." Wisconsin Guide

Energy and work. (General science ser.)

12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 621.312

By Morris Meister, head of science department, Haaren high school, New York city

A composite picture of an electric power plant. Transformation of power from sun to coal is traced and also from coal to heat, heat to steam, steam to electricity and the electric current until expressed, thru resistance, in incandescence. Also pictures a hydroelectric plant. The principles of action and reaction are illustrated by the engine in the steam plant which is of the turbine type

Jh-sh Guide

From coal to electricity. 2R 16-si-loan 35-si-nf-loan prior 1927 Stone & Webster 621.312

"How in a power plant the energy of the sun, locked up in coal, is changed to electrical energy . . . Shows the succession of steps by which coal becomes heat, heat generates steam, steam causes machines to move, and the machines produce electricity . . . Employs the arts of the screen to take the observer not merely through the station but inside each machine and piece of apparatus to view what happens there." Producer Jh-sh-c

Hydroelectric power. 1R 16-si-loan 35-si-f-nf-loan General electric 621.312

"Shows the world's largest automatically controlled hydroelectric generating station, located on the Ohio River at Louisville, Ky." Producer

Nature's frozen credits. 3R 16-si-loan 35-si-nf-loan prior 1927 Stone & Webster 621.312

"Filmed in . . . the Sierra Nevada Mountains . . . The construction of a great hydroelectric plant on the turbulent Feather River, famed for its scenic beauty. The picture illustrates in a non-technical way the various steps of developing the project, from the initial surveys to placing the machinery in operation." Producer

Water power. 30min 35-si-nf-loan prior 1927 Bur. of mines 621.312

Made in cooperation with the Westinghouse electric & manufacturing company

"Shows ancient methods of utilizing energy of falling water. Animated drawings picture power of Niagara changed into electrical energy. Shows uses of electricity in industry and in homes and generation of electricity from melting snow in mountains, brooks, and streams." Producer

Water power. 15min 16-si-\$24 1928 Eastman 621.312

"Niagara Falls reveals energy of falling water, a Pelton wheel, low head water power installations, animations explain turbine, various uses of electricity." Ohio Jh-sh-c Guide

621.32 Electric lighting

Illumination. 15min 16-si-\$24 1931 Eastman 621.32

"Shows some of the principal methods of lighting, illustrates measurement of illumination by the use of the photometer and

Illumination—Continued

foot-candle meter, shows the cause and correction of glare in home and factory, and demonstrates the character of direct and indirect lighting." Weaver
jh-sh Guide

Mazda lamp manufacturing. 30min 16-si-loan 35-si-nf-loan 1929 General electric 621.32

A silent version of "Mazda lamps preferred" listed below

"Making glass, blowing bulbs, frosting, making filaments, assembling, exhausting air." California

"Historical prelude; successive processes in the manufacture of these lamps with emphasis on the advantages of standardization and mass production." Colorado

Mazda lamps preferred. 40min 16-sd-loan 35-sd-nf-loan 1929 General electric 621.32

"The development and manufacture of household-size General Electric Mazda Lamps. The first part, picturing Thomas A. Edison's early experiments with the incandescent lamp, was made in the Menlo Park Restoration at Dearborn, Michigan. The scene then shifts to Cleveland, where a trip through the lamp factory shows many of the marvels of modern Mazda lamp production." Producer

621.35 Storage batteries

Chemical effects of electricity. 15min 16-si-\$24 1930 Eastman 621.35

"Volta working in his laboratory. Electric batteries, making dry cells, making storage batteries. Electrolysis, Hoffman apparatus, animation of electrolysis. Electroplating, plating a radiator, electrotyping. Metallurgy, making copper anodes, producing pure copper, producing aluminum from bauxite by electrolysis." Ohio
jh-sh-c Guide

Story of a storage battery. 30min 16-si-loan 35-si-nf-loan prior 1927 Bur. of mines 621.35

Made in cooperation with the Willard storage battery company

"Reel 1 shows the historical development of the storage battery, and the various steps in its manufacture. Reel 2 shows the various ways in which the battery is tested, sealed, and packed. Animated drawings visualize action in battery during charging and discharging." Illinois
"Useful in chemistry, physics and general science [classes]" Am. museum of nat. hist. sh

621.38 Electric communication. Radio

Communication. (General science ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 621.38

By Morris Meister, head of science department, Haaren high school, New York city

"The principle of an electric bell; the telegraph and the cable; voice waves; principle of the telephone, the radio, and the radiophone. Each step is clearly explained by animated diagrams and photographs of the various instruments in operation in everyday life." Indiana
el-jh-sh Guide

Electrical transmission of speech. 1R 16-si-apply 35-si-f-nf-loan Western electric 621.38

"Graphic presentation in animated drawings of the interesting fundamentals involved in the transmission and reception of the voice over wire circuits." Producer

Family album. 1R 16-sd-apply 35-sd-f-nf-loan Western electric 621.38

"A reunion of the telephone family is humorously pictured in this animated sound cartoon. Old Father Tel E. Phone introduces his sons, Mike and Loud Speaker, Public Address, Electrical Stethoscope and Talkie, the young motion picture wizard. The first actual recording on a sound film of the human heart-beat is heard." Producer

Laying the world's fastest ocean cable off Newfoundland. 2R 16-si-apply 35-si-f-nf-loan Western electric 621.38

"The laying of the permalloy cable from Bay Roberts, Newfoundland, to Penzance, England, with brief history of the laying of cables." Texas

Sky harbor. 1R 16-sd-apply 35-sd-f-nf-loan Western electric 621.38

"Synchronized to a descriptive narrative with full orchestral and sound effects." Producer

"The operation of the radio telephone communication system is shown and explained by a combination of actual photography and animated drawings. Airports and ships of the air provide the settings." Texas

Speeding up our deep sea cables. 2R 16-si-apply 35-si-f-nf-loan Western electric 621.38

Record of the laying of the permalloy cable between New York and the Azores

Wizardry of wireless. 2R 16-si-loan 35-si-f-nf-loan General electric 621.38

"A review of the history of signal communication, including the beacon fire, smoke signal, heliograph, semaphore, electric telegraph, telephone, and radio. Animated drawings are used to explain the operation of vacuum tube and other apparatus used in radio transmission and reception." Producer

621.385 Telephone

Inside story of your telephone. 2R 16-si-apply 35-si-f-nf-loan Western electric 621.385

How copper, mica, cotton, silk, gold, silver, platinum, rubber, flax, nickel, iron, coal, aluminum, asphalt, and wool are obtained and made ready for their use in your telephone. An older film which is still useful

Magic of communication. 1R 16-si-apply 35-si-f-nf-loan Western electric 621.385

"An animated explanation of what goes on in the transmitter and receiver of your telephone when the sound waves dash against the diaphragm and the little granules of carbon (coal) are pressed together." Texas

New voice highways. 1R 16-sd-apply 35-sd-f-nf-loan Western electric 621.385

"Music and sound effects enhance the popular appeal." Young men's Christian assn.

New voice highways—*Continued*

"How telephone cable is made and used. Contrasts are drawn between the old method of stringing city telephone wires on poles and the modern manner in which the huge lead-covered speech-carriers are now run underground." Texas

621.4 Gas and oil engines. Solar engines

Energy from sunlight. 15min 16-si-\$24 1930 Eastman 621.4

"Explains the principle of a solar engine — pictures the energy of falling water, sunlight, and wind power — shows how energy from sunlight stimulates plant growth, and is stored for future use in the form of wood and coal." Producer

jh-sh Guide

Four-stroke cycle gas engine. 15min 16-si-\$24 1929 Eastman 621.4

"Animated drawings show the four strokes of each cycle; intake, compression, power, and exhaust; the fuel system of a gas engine is traced; the principle of the spark coil is illustrated and the air-cooled system is compared with circulatory water-cooling." Weaver

jh-sh-c Guide

Power within—construction, operation, and care of the internal-combustion engine. 45min 16-si-loan 35-si-nf-loan prior 1927 Bur. of mines 621.4

"Uses of power produced by internal-combustion engine in lighting homes, pumping water, plowing fields, and operating automobiles, boats, and airplanes. Explains in detail by animated drawings name, location, and operation of each part of motor. Reel 2 presents principal features of automobile engine by animated drawings, with rod or arrows pointing to each part as it appears; shows how firing takes place in cylinders; illustrates changing of gears; explains how power is transmitted by propeller shaft to differential and axle shaft to rear wheels; and gives views of burned-out bearings, scored cylinder walls, and worn gears due to improper lubrication, telling how this difficulty may be avoided. Reel 3 shows purpose of carburetor (atomizing and mixing fuel with air before it enters cylinder); improper firing and waste of gasoline due to fouled spark plugs; knocking caused by accumulation of carbon; and proper use of choke. Waste of gasoline and of power is shown by animated drawings." Producer

Story of the gasoline motor. 45min 16-si-loan 35-si-nf-loan prior 1927 Bur. of mines 621.4

Made in cooperation with the Continental motors corporation

"Reel 1 depicts by animated drawings action of gasoline in cylinder and of each working part; casting and machining of each cylinder block; and tests for accuracy. Reel 2 shows machining of crank case; forging and machining of crank shaft; machining of pistons and connecting rods; testing of these parts; and their operation in motor. Reel 3 illustrates working of inlet and exhaust valves; timing of action; making of cam shaft, inlet, and exhaust manifold; distribution of lubricating oil to motor; and final test for smooth running." Producer

jh-sh-c

621.5 Pneumatic machinery. Refrigeration

Compressed air. 15min 16-si-\$24 1928 Eastman 621.5

"The principles underlying the compression of air, and its practical applications to the Bessemer converter, railway air brakes, air driven tools, and the fire engine." Producer

jh-sh-c Guide

Refrigeration. 15min 16-si-\$24 1929 Eastman 621.5

"Natural ice, cutting ice, packing ice. Commercial refrigeration, making solid carbon dioxide, making artificial ice explained by scenes and animations, refrigerator cars. Household refrigeration, ice refrigerator, electric refrigerators and gas refrigerators explained by animation." Ohio

jh-sh-c Guide

621.8 Principles of mechanism

Valves, their manufacture and uses. 45min 16-si-loan 35-si-nf-loan prior 1927 Bur. of mines 621.8

Made in cooperation with the Crane company

"Close-up views and cross sections of angle, globe, gate, and check valves. Complete story of the manufacture of brass valves. Shows the making of iron and steel valves, including forging poppet, butterfly, check, and gate valves; 27 foot butterfly valve, the largest made." Illinois [Useful in physics and general science classes] Am. museum of nat. hist.

621.87 Elevators

Riding skyward. 32min 16-si-loan 1936 Otis 621.87

A comprehensive history of the development of the Otis elevators. Incidentally there is shown a history of transportation trade

621.9 Machine tools

Engine lathe and its operation. 7R 16-si-apply 35-si-nf-apply Soc. for visual educ. 621.9

"Its care and operation—the complete assembly of lathe, showing principal parts—preparing the lathe for operation (oiling the different parts, starting, stopping, reversing; countershaft operation; straight and cross belts, object of reverse, etc.)—machining a shaft on centers—care of the spindle—diagram of 12 of the most practical lathe tools—thread cutting—machining a pulley—machining a pair of lathe centers—full details of important lathe jobs, together with knurling the lathe, turning taper by setting over tailstock, and special manufacturing job on a lathe." Producer

trade Guide

Industrious diamonds. 1R 16-si-apply 35-si-f-nf-loan Western electric 621.9

"Diamonds are used in dies which, in turn, are used in making copper wire. This film shows how diamonds are cut and mounted for use in this industry." Texas

Jewels of industry. 30min 16-si-loan 35-si-nf-loan 1932 Rothacker 621.9

Sponsored by the Carborundum company
"From the beautiful scenery of Niagara Falls into the manufacturing plants to show how abrasives are made, then into the many industrial plants to show their uses." Utah

Jh-sh-c-trade

Manufactured abrasives. 45min 16-si-loan 35-si-nf-loan prior 1927 Bur. of mines 621.9

Made in cooperation with the Carborundum company
"Shows experiment which led to discovery of carborundum; views of Niagara Falls, the source of power used in the manufacture of this abrasive; manufacturing processes; and some of the many uses of this product in factories, shops, farm, and home." Colorado
sh-c-trade

622 MINING, ENGINEERING

Safety in the use of explosives in open-pit iron mining. 1R 16-si-loan 35-si-nf-loan Hercules 622

"The great open pit iron mines of Minnesota are shown with their every safeguard." Colorado

622.2 Quarrying

Modern quarry blasting. 1R 16-si-loan 35-si-nf-loan Hercules 622.2

"The Hercules Powder Company recently published a text book entitled 'Modern Blasting in Quarries and Open Pits,' which thoroughly covers all phases of quarry blasting. To supplement this book, this one-reel film has been produced to picture the results obtained by various methods of blasting under a variety of conditions." Producer

"Quarry blasting of all kinds is shown, demonstrating that explosive engineers can select the particular type of method which will give the desired result." Colorado

A slow-motion picture of a large tunnel blast presents an opportunity to study an explosive action in its entirety

622.33 Coal mining

Anthracite coal. 15min 16-si-\$24 1929 Eastman 622.33

"Stresses the necessity of adequate timbering—shows miners at work, blasting coal and removing it from the mine—work in the breaker—cleaning and grading coal." Producer el-jh-sh-c Guide

Anthracite coal. 1R 16-si-loan 35-si-nf-loan 1928 General electric 622.33

"This film depicts how anthracite was secured from one of the first mines, opened more than a century ago. Also, the principal operations in the mining and preparation of this important natural resource by our modern methods. [Useful in] geography, physiography, commercial geography and general science [classes]" Am. museum of nat. hist.
el-jh-sh

Bituminous. 1R 16-si-loan 35-si-nf-loan General electric 622.33

"Shows the mining of bituminous coal, with special reference to the development of various methods of mining according to the location and the type of mine." Producer

"[Useful in] geography, physiography, commercial geography and general science [classes]" Am. museum of nat. hist.
el-jh-sh

Bituminous coal. 15min 16-si-\$24 1928 Eastman 622.33

"Shows mining of soft coal—testing for gas, blasting, purifying air, slate picking, sorting. Also manufacture of coke—crushing, floating off slate, beehive and retort ovens, quenching and loading." Producer el-jh-sh-c Guide

Buried sunshine. 2R 16-si-loan 35-si-nf-loan Stone & Webster 622.33

"Story of Anthracite . . . how it was discovered, how it is mined and how today it is cleaned, sorted, graded, and made ready for shipment by the largest anthracite breaker in the world." Producer

Jh-sh-c

Modern coal mining. 25min 16-si-loan 35-si-nf-loan 1930? Goodyear 622.33

"How labor-saving electrical machinery has replaced old methods." Colorado

"Wildwood" a 100 percent mechanized mine. 45min 16-si-loan 35-si-nf-loan prior 1927 Bur. of mines 622.33

Made in cooperation with the Westinghouse electric and manufacturing company
"In addition to showing the most modern and efficient methods of securing coal, the film also covers preliminary testing for explosive gases, rock-dusting to prevent explosion of coal dust, and concludes with views of first-aid instructions being given to employees, and first-aid and mine-rescue teams." Kansas

623.8 NAVAL ARCHITECTURE

For a discussion of ships and shipping in general see class 387. For boating as a sport see class 797.1

Hull design. (General interest ser.) 8min 16-sd-apply 35-sd-f-apply Gaumont British 623.8

"The film opens with a picture of the 'Mauretania' and this is followed by a description of the methods used in producing the wax model. This section is in considerable detail. Next is a view of the Yarrow Experimental Tank, and the model—which is fitted with an electric motor and screw propeller—is seen being lowered into the water. An actual test run is portrayed, and it is possible to get some idea of the wave pattern. One is then introduced to the method of producing artificial waves, and a run is made in rough water. The film closes with pictures of one or two modern ships. The photography is very good and the spoken commentary excellent. The film is rather too brief to satisfy the needs of technical students. . . [Suitable for] naval architecture and marine engineering instruction for students in technical colleges and universities; of general interest to people living in sea-ports and shipbuilding centres." British film inst.

c Guide

623.825 Submarines

- Submarine service.** 1R 16-si-sd-loan 35-si-sd-f-loan Navy recruiting serv. 623.825
 "Training personnel for submarine duty. Life on board a submarine. Operating submarine and undersea rescue apparatus." Producer el-jh-sh-c

624 BRIDGES

- How Brooklyn bridge was built.** 10min 16-si-\$10.99 35-si-f-nf-apply Bray 624
 "A combination of photography and animated drawings shows how this famous structure was erected." Producer jh-sh-c
- Span supreme.** 80min 35-si-nf-loan Am. inst. of steel construction 624
 Operations in the construction of George Washington bridge, New York

625 RAILROAD AND ROAD ENGINEERING

For history and discussion of railroads in general see class 385

- Conquest of the Cascades.** 1R 16-si-loan 35-si-f-nf-loan General electric 625
 The new Cascade tunnel and its contribution to easier and faster transportation between the East and the seaports of the Pacific Northwest

- Railroad safety.** 15min 16-si-\$24 1931 Eastman 625

Film on modern railroad transportation. Surveyors lay out the road, ties are placed in position and rails are spiked to the ties. The road-bed is banked, and guard rails are laid at curves to prevent accidents. A track inspector notes defects in a track and repairs are made immediately. A snow fence is set in position. A snow plow clears the track. An inspector tests an engine for broken wheels and hot bearings. An engineer has his watch regulated, and his eyes tested. A telephone report is made to the dispatcher from each station as a train passes. Wayside signals and automatic train controls are explained

el-jh Guide

- Ties of steel.** 1R 16-si-loan 35-si-f-nf-loan General electric 625

"Converting worn-out rails into railroad ties through electric welding." California

625.7 Roads. Highways

- Building forest roads.** 1R 16-si-loan 35-si-nf-loan 1922 U.S. agric. 625.7

A Bureau of public roads film
 "Men and machinery at work in the national forests, pushing good highways through the great mountains and woodlands." Producer

sh

- Concrete road construction.** 2R 16-si-loan 35-si-nf-loan 1929 U.S. agric. 625.7

A Bureau of public roads film
 "Illustrates the essential requirements in the design of concrete pavements to provide the necessary stability to resist the destructive action caused by the volume, weight, and speed of modern motor traffic.

Shows the principal operations in the most advanced methods of concrete-pavement construction." California

- Highway beautification.** 2R 16-si-sd-loan 35-si-sd-nf-loan 1932 U.S. agric. 625.7

A Bureau of public roads film

"Suggests ways to preserve and enhance the beauty of roadside plant material and otherwise beautify highways, and add to the safety and comfort of travel by elimination of obstructions interfering with vision and by the removal of eyesores. Recommendations are made concerning construction scars, steep banks, scenic look-outs, guard rails, automobile camps, bridges, etc." California

- Men who build the roads.** 1R 16-si-loan 35-si-nf-loan 1927 U.S. agric. 625.7

A Bureau of public roads film

"A tribute to the courage and ingenuity of the builders of our mountain highways, with glimpses of them engaged in the task of penetrating the rocky barriers of Glacier National Park with a modern road." Iowa State college

626.8 Irrigation

- Irrigation.** 15min 16-si-\$24 1928 Eastman 626.8

The Roosevelt project; the Imperial Valley project; irrigation in the region of San Diego

"One of the most important conquests of nature by man has been the increase of food production by irrigation. This film thru detailed illustrations gives an understanding of how the once barren desert land has been transformed into productive regions that add to our national wealth." Indiana el-jh-sh-c Guide

- Irrigation—a brief outline.** 1R 16-si-loan 35-si-nf-loan 1935 U.S. agric. 626.8

A Bureau of agricultural engineering film
 "Covering the important points in irrigation. For public schools especially." Producer

- Orchard irrigation.** 2R 16-si-loan 35-si-nf-loan 1932 U.S. agric. 626.8

A Bureau of agricultural engineering film
 "Up-to-date practices in orchard irrigation by contours and terracing, and by the pressure, the basin, and the overhead systems." Producer

- Preparing to irrigate.** 1R 16-si-loan 35-si-nf-loan 1932 U.S. agric. 626.8

A Bureau of agricultural engineering film
 "Different types of ditch-making machinery; location for field ditches; necessity for keeping ditches free from moss and weeds." California

- Story of federal reclamation.** 2R 35-si-nf-loan 1924? Bur. of reclamation 626.8

"Government reclamation of waste lands: building of dams in Montana, Wyoming, Colorado, Arizona, New Mexico, California, and Washington." Texas

sh

627.8 Dams

- Boulder dam.** 6R 16-si-\$144 35-si-nf-\$450 Boulder dam serv. bur. 627.8

In color

"Created primarily for engineers and technical societies." Producer

The following are also available: 1R 16-si-\$36 35-si-nf-\$112.50; ¼R 16-si-\$18; also three ¼R versions at \$6 each and one

Boulder dam—Continued

slightly longer at \$9. These shorter versions show development and progress made on the Project from the first surveys and road-building down to the present final operations. The river during early stages of work, high-scaling, blasting, concrete pouring operations. Fabrication of the gigantic penstock pipe at the Babcock & Wilcox plant, transporting and lowering it to the canyon. The spillways, intake towers, movement of large penstock pipe and the dam as it appeared when half completed. The beginning of water storage, completed dam, the intake towers and spillways, power house, boating on Boulder Dam lake, high tension transmission towers and, finally, the roadway which crosses the dam

628 SANITARY ENGINEERING**628.1 Water supply engineering**

Forest and water. 1R 16-si-sd-loan 35-si-sd-nf-loan 1930 U.S. agric. **628.1**

A Forest service film

"Points out the vital influence that the forest has on water supply. Photography made largely in the mountains of western North Carolina." California

New York water supply. 15min 16-si-\$24 1928 Eastman **628.1**

"Gives an insight into a typical sanitary water system for a large city. Scenes and animations picture methods used in bringing water from the Catskills, through the mountains and under the Hudson River, to New York City." Producer

el-jh-sh-c Guide

Purifying water. 15min 16-si-\$24 1928 Eastman **628.1**

"Lake water, the 'crib,' animation of operation of 'crib,' the pumping station. Removing sediment, settling tanks and animation showing operation, action of aluminum sulphate, sand and gravel filters, animation showing action, a filtration plant, cleaning sand, how water is contaminated, a safe well. Disinfecting water, chlorination plant, animation showing action of chlorine. Testing water, bacteriological laboratory, how tests are made." Ohio

Jh-sh-c Guide

Water. (General science ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry **628.1**

By Morris Meister, head of science department, Haaren high school, New York city

"Simple experiments show water in liquid, solid and gaseous forms; the water cycle in nature; how man has adapted the properties of water to his own use; steam as power; a water-supply system; methods of irrigation." Kansas

Jh-sh Guide

628.3 Sewage disposal

Sewage disposal. 15min 16-si-\$24 1930 Eastman **628.3**

"Deals with purification by Imhoff tank and sprinkling filter—purification by sand filtration—discharging sewage into the ocean with the ebb tide." Producer

el-jh-sh-c Guide

Waste disposal in cities. 15min 16-si-\$24 35-si-nf-\$55 1921 Soc. for visual educ. **628.3**

"Shows methods of sewage disposal and purification; informative but popular in character. Suitable for any audience, but especially useful in connection with sewage disposal campaigns." N.Y. (State). Dept. of health

Jh-sh Guide

628.7 Rural water supply

Turn on the water! 1R 35-si-nf-loan 1926 U.S. agric. **628.7**

A Bureau of agricultural engineering film

"Danger of impure water on the farm; good and bad water-supply systems, and examples of both kinds; how to install inexpensive systems. Particularly for rural use." Texas

628.9 Lighting

Light of a race. 1R 16-si-loan 35-si-f-nf-loan General electric **628.9**

"Historical account of artificial illumination which depicts, in successive scenes, the use of the flint, stick and groove, drill, and match to obtain fire; and the use of the torch, stone lamp, candle, oil lamp, gas lamp, and the incandescent lamp as sources of light." Producer

el-jh-sh

629.1 AERONAUTICS

Aircraft design. (General interest ser.) 11min 16-sd-apply 35-sd-f-apply Gaumont British **629.1**

"Scenes showing various types of aircraft taking off, flying, and doing aerobatics. Metallurgical laboratory at the National Physical Laboratory showing castings, heat treatment and rolling of alloys. Wind tunnel tests showing how lift and drag are measured. View of model aircraft being tested on rotary arm. The film ends with other types of aircraft in the air. . . The basic side of design is not dealt with in the film. . . A background film for advanced students and a general interest film for all." British film inst.

Guide

Balloon racing. 15min 16-si-loan 35-si-nf-loan 1930? Goodyear **629.1**

"Various details leading up to the take-off. . . Several of these balloons in the air." Producer

Jh-sh

Flying across America in 16 hours with United air lines. 24min 16-si-loan United air lines **629.1**

"A 2,633-mile Coast-to-Coast flight. . . The forests, rivers, valleys and mountains of the Pacific coast, the gigantic Boulder Dam and Reservoir, the Great Salt Lake, the Continental Divide and the Wyoming plateau country, the rolling Nebraska lands, the farms of the Midwest, Chicago, Cleveland, and finally New York. . . Interspersed with . . . aerial views of interesting points along the historic Overland Trail are flight photographs of the stream-lined Boeing monoplanes. . . Airplane construction, engine overhaul and maintenance, weather observation and reporting, radio telephone communication between ground

Flying across America—Continued

stations and planes in flight, lighting for night flying, directive radio beacon service and other phases of air transportation are portrayed." Producer

Jack wins his wings. 1R 16-si-sd-loan 35-sd-f-loan Navy recruiting serv. 629.1

"Naval Aviation Training in Pensacola, Florida; with comedy and romance plot." Producer jh-sh

Magellan of the air. 15min 16-si-loan 35-si-nf-loan Goodyear 629.1

"Deals principally with the activities of the 'Magellan of the Air' (Dr Hugo Eckener) while in America, immediately following his circumnavigation of the globe. He was Cleveland's distinguished guest on the final day of the National Air Races, where about 150,000 people heard him speak and gave him a rousing reception. The film shows the vast throng cheering the master navigator of the air and waving good-bye as he boarded a Goodyear airship for Akron, where he was given another warm greeting. He is seen conferring with Goodyear-Zeppelin officials and inspecting the huge airship dock, in which the Goodyear organization constructs giant ships for the United States Navy. Some . . . 'shots' of the Graf's visit to Akron, on its flight from South America to the World's Fair in 1933, are shown." Producer jh-sh-trade

One-point landings. 15min 16-si-loan 35-si-nf-loan 1931? Goodyear 629.1

"The performer is an airplane equipped with Goodyear Airwheels, great balloon tires, so large that the wheel disappears, leaving only axle and tire. Thus shod, the plane makes breath-taking landings first on one wheel, then on the other, then travels alternately on the right and left wheels. It makes bouncing landings—that is two-point landings on the front wheels only, then takes off for a short distance, landing again with the full shock of landing absorbed by the tires. The dependability and power of airplane brakes is also shown when the plane is held steady without movement except for a lifting of the tail with the motor at full throttle. Ground loops . . . are shown safely made." Producer jh-sh

Parade of comic balloons. 15min 16-si-loan 35-si-nf-loan 1930? Goodyear 629.1

"Staged by R. H. Macy & Company, New York City. . . Spectators wildly cheer as they see freaks come back to life in a demonstration that heralds the coming of a great holiday. Monster balloons, helium inflated, made by the Goodyear Tire & Rubber Company, represent giants, animals and whatnot. Tony Sarg, famous artist, did the decorating." Producer el

Sky fleets of the navy. 1R 16-sd-loan 35-sd-f-loan Navy recruiting serv. 629.1

"Aviation in the Navy and part it plays in coordinating with surface vessels. Manuevers, showing planes taking off aircraft carriers and from bases ashore, firing torpedoes and dropping bombs. . . Scenes of a sham battle at sea." Producer

Story of the airship. 15min 16-si-loan 35-si-nf-loan 1933? Goodyear 629.1

"A picture of exceptional interest. There isn't another like it. Tells of the beginning of American balloon-making and flying and development of the small 'blimp,' student training for airships. The Graf Zeppelin

soaring over New York City. Interior scenes of this great ship give spectator idea of many conveniences and comforts of air travel." Minnesota

U.S.S. Akron. 30min 16-si-loan 35-si-nf-loan 1931? Goodyear 629.1

"Depicts various stages of the ship's construction from the time Rear Admiral W. A. Moffett . . . drove the golden rivet into the first main frame on November 7, 1929 . . . until the first trial flight on September 23, 1931. . . Presentation of the official colors for the ship, on Navy Day, 1930. . . Christening of the ship August 8, 1931, by Mrs. Herbert Hoover, then First Lady of the Land. . . Lieut. Com. C. E. Rosendahl, first captain of the Akron, is shown with his officers and men, while various shots of the interior give the spectator a glimpse of the inside of the craft, which was nearly twice the size of the Graf Zeppelin and about three times the size of the Los Angeles, and took 22 months to construct." Producer

629.2 AUTOMOBILES

Along the firing line, or the story of a spark plug. 30min 16-si-loan 35-si-nf-loan prior 1927 Bur. of mines 629.2

Made in cooperation with the Champion spark plug company

"Story of the spark plug; use in gasoline engines, fire trucks, airplanes, etc., with animated drawing to show action of spark plug; making insulators, brass caps and electrodes with assembling, point setting, and packing." Colorado

"[Useful in] general science, physics, commercial geography and shop work [classes]" Am. museum of nat. hist. sh

Automobile. 15min 16-si-\$24 1929 Eastman 629.2

"By tracing production and use of iron, rubber, glass and gasoline in the automobile, this film presents a striking picture of the interdependence of industries." Producer el-jh Guide

Automobile lubrication. 15min 16-si-loan 35-si-nf-loan prior 1927 Bur. of mines 629.2

Made in cooperation with the Standard oil co. (Indiana)

"A motorist is shown details of automobile lubrication in an efficient greasing station. A thorough check of his car is made to be sure that no detail is overlooked." Utah

"[Useful in] shop work and general science [classes]" Am. museum of nat. hist. sh

Cat and the kit. 1R 16-si-loan 35-si-f-nf-loan General electric 629.2

"Animated picture, designed to promote the use of G-E Edison Mazda automobile lamps and to encourage the carrying of spare lamps." Producer jh-sh-c

Dependability. 1R 16-si-loan YMCA 629.2

"Uses of the Dodge car in the World War, on the Gobi desert, and in trick tests." Distributor

Making an all-steel automobile body. 30min 16-si-loan 35-si-nf-loan prior 1927 Bur. of mines 629.2

Made in cooperation with the Edward G. Budd manufacturing company

"Reel one depicts mining, smelting and conversion of iron ore into steel, also pouring ingots and rolling ingots into sheets.

Making of an all-steel automobile body
—Continued

A drafting room shows men shaping wooden patterns for metal dies. Reel two proceeds with the stamping of the largest pieces of pressed steel ever made—the entire side panel—down to welding of parts and assembling of the entire automobile body. [Useful in] chemistry, shop work and general science [classes]. Am. museum of nat. hist.

sh

Metals of a motor car. 30min 16-si-loan 35-si-nf-loan 1933 Bur. of mines 629.2

"A technical film which shows how a metallurgist determines the precise metal for each particular part of a motor car. The film tells the story of steel, molybdenum, nickel, chromium, aluminum, lead, copper, tin, antimony, and zinc and how metals and alloys have been developed after years of research to make for safety and comfort in our modern cars. [Useful in] chemistry, general science and shop work [classes]. Am. museum of nat. hist.

sh

Rhapsody in steel. 2R 35-sd-nf-loan 1934 Ford 629.2

"Fantastic and highly modernistic portrayal of the manufacture at the Rouge Plant of the Ford Motor Company, with special musical score." Producer Jh-sh-c-trade

629.213 Safe driving

Everybody's business. 11min 16-si-sd-loan 35-sd-nf-loan 1935 Chrysler 629.213

Narration of sound version is by Alols Havrilla

A plea for more careful driving. Shows how some accidents happen and gives an interesting test of two cars driven across a city, one obeying traffic laws and one ignoring everything but speed. Interesting and illuminating

Once upon a time. 15min 16-si-sd-loan 35-si-sd-nf-loan 1934 Metropolitan life 629.213

Also obtainable in technicolor (35-sd-f-loan)

"This picture is an animated cartoon with musical symphonies (on the sound film) and shows a fairy-land setting used to emphasize the need of safety on the streets." Nat. safety council

"Well-known fairy tale and Mother Goose characters become involved in the present-day types of street and highway accidents through the machinations of two bad goblins—'Carelessness' and 'Discourtesy.' The film ends with emphasis upon safe driving methods, following the banishment of these goblins by the good fairies 'Carefulness' and 'Courtesy.'" Producer ei-jh-sh

Saving seconds. 11min 16-si-sd-loan 35-si-sd-nf-loan Aetna 629.213

Produced by Castle and is also available in 2 reels (16-si-loan 35-si-nf-loan Aetna)

"The purpose of this picture is to prove the folly of attempting to save seconds at the possible sacrifice of human lives. The photography is of the best, showing excellent 'shots' of collisions, skids and other all too common highway accidents." Nat. safety council

"Good for general audiences as well as for classroom use." Illinois

"[Useful in] civics [classes]. Am. museum of nat. hist.

ei-jh-sh-c Guide

Why be careless? 15min 16-si-loan 35-si-nf-loan 1928? John Hancock 629.213

"A series of 'right' and 'wrong' driving practices designed for the purpose of preventing highway accidents. The responsibility of both the pedestrian and the automobile driver is emphasized." Nat. safety council

630 AGRICULTURE

Farm. 15min 16-si-\$24 1931 Eastman 630

"A group of school children visit a farm, where they see the farmer's home, his barns, cows, ducks, chickens, pigs, sheep, and horses. The children romp in the orchard, feed the horses, play with the lambs, and revel in the strawberry patch. The farmer is shown as he harvests green corn. Apples are gathered in the orchard, and many other farm products are shown in the process of harvesting. In final scenes the cows are milked, and the milk is poured into cans for shipment." Producer ei Guide

Farmer. (Vocational guidance ser.) 12min 16-si-\$24 35-si-nf-\$80 1927? DeVry 630

A vocational film by Fred C. Smith, formerly editor, Magazine of vocational guidance, Harvard university

Visualizes life on a farm, showing modern scientific methods and modern mechanical equipment. Shows social, health and family advantages as well as problems of isolation, individualism and marketing disorganization

jh-sh Guide

Master farmer. 2R 16-si-loan 35-si-nf-loan 1929 U.S. agric. 630

A Bureau of agricultural economics film "The master-farmer movement as exemplified by results in Oklahoma; scenes illustrating the farm and home life of farmers who have made a success of farming in the fullest sense of the word." California

Yoke of the past. 3R 16-si-loan 35-si-f-nf-loan General electric 630

"Records a century of progress in agriculture. It presents a sympathetic picture of the farmer's problems and is also intended to inform the farmer, himself, of modern methods by which these problems are being solved." Colorado

sh

630.942 Agriculture in England

This was England. (Face of Britain ser.) 21min 16-sd-apply 35-sd-f-apply Gaulton British 630.942

"An attempt to show the existence of a continuous tradition in Suffolk, from the Stone Age to the present day. The film is divided into a number of sections linked by subtitles, each section dealing with a separate custom, and the title assigning its historical place. The sections cover Prehistoric times, Ancient Britain, Roman Britain, the Angles and Saxons, the Middle Ages, the 19th century, and the present; and include flint-knapping field drainage as practised in very early times, hand-sowing of seed, thatching, and modern agricultural methods. All these practices are shown as living side by side to-day. The sea rounds off the film at both ends, to give the effect of permanence and also to symbolise the ebb-tide of prosperity!"

This was England—Continued

The commentator explains, too, that with the advancing years the sea washes away the land. The commentary is in a Suffolk voice, and to a large extent, also, characters in the film are allowed to explain their methods to us directly. An old farm-hand, illustrating hand-sowing, charms us by his naturalness and disregard of the camera. . . . General interest film for all and a background film to illustrate geography lessons for older children." British film inst.

Guide

630.952 Agriculture in Formosa

Farmers of Formosa. ¾R 16-si-\$17.50
Burton Holmes 630.952

"Chinese laborers under Japanese control on the tea plantations. Cultivation of rice and the sugar industry." Producer

631 The farm

Magic in it. 2R 35-si-nf-loan 1926 U.S. agric. 631

"Points out the advantage of using a farm-accounting system that makes possible a yearly summary of the farm business. Motion picture 'magic' is used to emphasize the lesson taught." Colorado

631.18 Marketing of farm produce

Marketing live poultry. 1R 16-si-loan 35-si-nf-loan 1932 U.S. agric. 631.18

A Bureau of agricultural economics film
"Points out the necessity for culling on the farm; contrasts old marketing methods with the modern; shows care of live poultry en route to market." Producer

631.4 Soils

Anchored acres. 1R 16-si-loan 35-si-nf-loan 1923 U.S. agric. 631.4

An Extension service film
"Soil erosion damage and approved modern engineering practices for overcoming this evil. Methods shown include brush and soil-saving dams, terracing, and crop rotation. Produced in cooperation with the University of Nebraska by the States Relations Service." Indiana

Save the soil. 2R 16-si-loan 35-si-nf-loan 1932 U.S. agric. 631.4

An Extension service film
"A general discussion of the problem of soil conservation. This very interesting film shows the part that soil has played in history. The subject is so treated that it is of wide general interest." Iowa state college sh-c

Saving the soil by terracing. 1R 16-si-loan 35-si-nf-loan 1928 U.S. agric. 631.4

A Bureau of agricultural engineering film
"Methods of constructing terraces to prevent the washing away of fertile top soil, gulleying, and other forms of erosion in Southeastern States." Texas

631.5 Farm operations

Clearing land. 2R 16-si-loan 35-si-nf-loan 1929 U.S. agric. 631.5

A Bureau of agricultural engineering film
"Shows various methods of stump removal." Producer

Dynamite—concentrated power. 1R 16-si-loan 35-si-nf-loan 1926 U.S. agric. 631.5

A Bureau of agricultural engineering film
"Farm uses of dynamite, particularly in blowing out stumps, breaking and removing boulders, and in blasting ditches. The technique of using dynamite, and precautions to be observed. Particularly for farmers." California

Haymaking. 2R 16-si-loan 35-si-nf-loan 1932 U.S. agric. 631.5

A Bureau of agricultural economics film
"Various methods of making hay, with special reference to the modern labor-saving systems." Producer

How seeds germinate. 1R 16-si-loan 35-si-nf-loan 1931 U.S. agric. 631.5

A Bureau of plant industry film
"Show the actual germination of crimson clover and spring vetch over periods of from 3 days to an entire week. These unusual slow-motion screen studies of plant growth were made by taking pictures or 'frames' at intervals of 3 to 7 minutes." California

Testing seeds in soil. 1R 16-si-loan 35-si-nf-loan 1931 U.S. agric. 631.5

A Bureau of plant industry film
"Contrasts the older methods of testing seed in blotters with the newer method of making seed-germination tests in soil. Shows how the soil tests are made." Producer

631.7 Irrigation. See 626.8**632 Hindrances. Pests****632.6 Injurious animals**

Eastern woodchuck and its control. 2R 16-si-loan 35-si-nf-loan 1929 U.S. agric. 632.6

A Bureau of biological survey film
"Shows how this destructive rodent may be kept in check." Iowa state college sh

How to get rid of rats. 1R 16-si-loan 35-si-nf-loan 1927 U.S. agric. 632.6

A Bureau of biological survey film
"Interesting insights into the habits of this rodent vandal and visual instruction in 'how to get rid of rats.'" Iowa state college

Million-dollar pockets. 2R 16-si-loan 35-si-nf-loan 1928 U.S. agric. 632.6

A Bureau of biological survey film
"The pocket gopher, its habits, damage to the alfalfa crop, and methods of control." Producer

632.7 *Injurious insects*

Beware the Japanese beetle. 1R 16-si-loan 35-si-nf-loan 1934 U.S. agric. 632.7

A Bureau of entomology and plant quarantine film

A popular picture containing the important points of "Japanese beetle—method of control" and "Japanese beetle—life history, damage, and spread", listed below, and designed especially for use in public schools

"Shows origin, date of introduction of this pest, how to identify it, life cycle of the beetle, and methods of control." Colorado

Corn and the borer. 1R 35-si-nf-loan 1927 U.S. agric. 632.7

A Bureau of entomology and plant quarantine film

Companion film to "Corn borer and what to do about it" listed below

"History of the European corn-borer infestation. Quarantine and inspection methods employed to check the spread of the insect." Producer c

Corn borer and what to do about it. 2R 16-si-loan 35-si-nf-loan 1927 U.S. agric. 632.7

A Bureau of entomology and plant quarantine film

"The life history of the European corn-borer and methods recommended to corn belt farmers for keeping this dangerous insect pest under control. Life history photography includes the laying of eggs by the moth, the hatching of the young larvae, molting, and emergence of the adult. Various methods of control, including destruction of the stalks by burning, and shredding are emphasized." Indiana jh-sh-c

Gipsy and brown-tail moths—control methods. 1R 35-si-nf-loan 1928 U.S. agric. 632.7

A Bureau of entomology and plant quarantine film

"The story of man's fight to prevent further spread of brown-tail and gipsy moths; spraying, dusting, and other control methods." Producer

Gipsy and brown-tail moths—life history. 1R 35-si-nf-loan 1928 U.S. agric. 632.7

A Bureau of entomology and plant quarantine film

"Life cycle of the gipsy and brown-tail moths and a record of their invasion and spread in the United States." Producer

Japanese beetle—life history, damage, and spread. 2R 16-si-loan 35-si-nf-loan 1934 U.S. agric. 632.7

A Bureau of entomology and plant quarantine film

"Shows origin and date of introduction of this pest and how to identify it; life cycle of the beetle, extent of damage done." Producer

Japanese beetle—methods of control. 2R 16-si-loan 35-si-nf-loan 1934 U.S. agric. 632.7

A Bureau of entomology and plant quarantine film

"Shows in detail all present methods used in combating the beetle." Producer

Old Jake wakes up. 1R 35-si-nf-loan 1927 U.S. agric. 632.7

A Bureau of entomology and plant quarantine film

"A short corn-borer picture designed to awaken interest in the spring clean-up campaign and supply comedy for corn-borer meetings. Includes trick photography, nightmare scenes showing 'Old Jake' pursued by fierce corn-borers ten feet long." Indiana

Potato enemies. 15min 16-si-\$24 1932 Eastman 632.7

Edited by the New York state college of agriculture at Cornell university

Potato enemies which attack the vines above the ground, such as flea beetles, Colorado potato beetles, leaf hoppers, and tarnished plant bugs. Also underground insects and diseases that attack potato tubers, such as wireworms, wheat wireworms, *Rhizoctonia* fungus, potato scab, millipedes, white grubs (in adult stage May beetles), slugs, and flea beetle larvae

jh-sh Guide

White flies and tomatoes. (Natural history ser.) 8min 16-sd-apply 35-sd-f-apply Gaumont British 632.7

"The first part of the film is a speeded-up picture of germination and growth of the tomato plant, ending with the fertilization of the flower and the growth of the fruit. The white flies are then shown in action on the plant, and by skillful micro-photography their life cycle is shown, together with the means by which they injure the plant. A natural parasite—a small species of wasp—is also shown in action by means of micro-photography, and its method of parasitism is clearly brought out. The film concludes with a pictorial demonstration of the means for ridding tomato glass-houses infested with white fly by the use of hydrocyanic gas. . . . The commentary . . . presupposes an elementary knowledge of the normal stages of the average life cycle of insects. For class-room work this portion of the film would need to be watched through several repetitions before all the details were fully grasped. At the same time, the film would, with considerable comments by the teacher, form an excellent demonstration for entomological purposes. . . . [Useful] in nature study, horticulture, botany and entomology [classes]" British film inst.

Guide

Why moths leave home. 1R 35-si-nf-loan 1930 U.S. agric. 632.7

A Bureau of entomology and plant quarantine film

"Shows damage done by clothes moths to fabrics, feathers, bristles, and upholstery and different methods of getting rid of this pest." Producer

633 *Field crops*633.1 *Cereals. Grains*

America's granary. 15min 16-si-\$24 35-si-nf-\$60 1929? Films of commerce 633.1

Produced by Pathe

"Showing America as the granary of the world. The evolution of reapers and the development of great wheat farms. Planting, harvesting and threshing. . . . Maps and animated diagrams." Distributor

jh

Corn. 15min 16-si-\$24 1928 Eastman 633.1

"Field of ripe corn, shocked corn, husking corn, selecting seed ears. Tractor plowing, disk and smoothing harrows. Testing seed, shelling and sifting, seed corn planter, cultivator, cutting corn for ensilage, silo. Corn borer, stubble burning apparatus. The husking contest, shelling machine. Corn flakes, corn starch. Feeding stock." Ohio Guide

Food shot from guns. 20min 16-si-loan 35-si-nf-loan Quaker 633.1

"Story of the growth, harvesting, milling, and packing of grain. The growth of rice in the Orient and in the United States; also the unique process of puffing grains, made visible through slow motion photography." Producer

A good part of this film is taken in the factory of the Quaker oats company and the boxes of this company are, of course, used in demonstrating various processes. There is also a close-up of the box for puffed rice and one for that of puffed wheat

"[Useful in] geography, commercial geography and domestic science [classes]" Am. museum of nat. hist.

el-jh-sh

History of corn. 15min 16-si-loan 1935 Castle 633.1

This film replaces the earlier "Miracle of corn" also produced by Castle

"We see an Indian squaw grinding corn in a mortar, then pioneers husking corn by hand for a brookside mill. Modern machinery next takes us through all the milling processes from crop to cornflakes. [Useful in] history, geography and commercial geography [classes]" Am. museum of nat. hist.

el-jh-sh

Our daily bread. 1R 16-si-loan 35-si-f-nf-loan General electric 633.1

"Visualizes the evolution of our wheat industry. It shows the development of the means of harvesting, threshing, milling and baking, beginning in each case with the primitive and concluding with the most modern apparatus in use. [Useful in] geography, nature study and domestic science [classes]" Am. museum of nat. hist.

el-jh

Ten pounds to the bushel. 20min 16-si-loan 35-si-nf-loan Quaker 633.1

"The story of oats from the cutting of the grain on the farm, through the sorting machines, the classifying in the laboratory and the two cooking processes, to the rolling, weighing and final filling of the boxes for shipment. [Useful in] geography, commercial geography and domestic science [classes]" Am. museum of nat. hist.

el-jh-sh

Wheat. 15min 16-si-\$24 1928 Eastman 633.1

"Visualizes the evolution of the wheat industry from pioneer methods of farming to big-scale farming with tractor-drawn machines, harvesting 'combines,' and storage in huge grain elevators." Producer

el-jh-sh-c Guide

Wheat or weeds? 1R 16-si-loan 35-si-nf-loan 1924 U.S. agric. 633.1

A Bureau of agricultural economics film "Story of wheat cleaning and the operation of wheat cleaning machines at the threshing; how clean wheat saves the profits, otherwise eaten up by dockage deductions." Indiana

633.3 Beans

Do you know beans? 1R 16-si-apply Edited pictures 633.3

Germination and life history of the bean

Four men and the soy. 2R 16-si-loan 35-si-nf-loan 1925 U.S. agric. 633.3

A Bureau of plant industry film produced in cooperation with Ohio state university

"Four men, each engaged in a different type of farming, find a solution for their particular problems in the raising of soy beans. They all make a pilgrimage to the State Agricultural College, and attend a 'soy beans day.' The various types of soy beans and methods of raising them are clearly shown." Iowa state college

sh-c

633.4 Potatoes. See 635.2

633.5 Textile fibers

Films on growing of cotton have been classed in 677.2 in order to keep all this material together

633.8 Hops

Hop growing. (Geography ser.) 11½min 16-sd-apply 35-sd-f-apply Gaumont British 633.8

Methods of hop growing, etc. Guide

634 Fruits. Orchards

Where nature smiles. (Seeing Canada ser.) 6min 16-si-\$9.84 35-si-nf-apply Canadian gov't. 634

"This film shows the great Niagara fruit district. The opening of the picture deals with the trees in blossom and later one visits this famous district at harvest time and sees the fruits being picked from the trees and distributed by means of special refrigerator car, electric trolley lines, and other ways. [Useful in] geography, commercial geography and nature study [classes]" Am. museum of nat. hist.

el-jh-sh

634.1 Apple

Apples of Annapolis. (Seeing Canada ser.) 5min 16-si-\$8.19 35-si-nf-\$43.26 Canadian gov't. 634.1

The famous Annapolis valley, Nova Scotia, Canada's most extensive apple growing region in blossom time and at harvest time. Containing many pictorially beautiful scenes, illustrating the various phases of the apple industry

"[Useful in] geography, domestic science, commercial geography and nature study [classes]" Am. museum of nat. hist.

el-jh-sh

634.3 *Citrus fruits*

Golden orange. 15min 16-si-loan 1935
Castle 634.3

"This film replaces an earlier one titled: 'Golden health'."

A short history of the beginnings of the orange industry. Then follows the planting of seeds, transplanting of young trees, grafting and final setting in permanent grove. As the fruit ripens it is carefully picked and transported to packing houses where it is washed, air-dried and graded. The oranges are trade-marked, wrapped and packed for shipping.

"[Useful in] geography, hygiene, commercial geography, nature study and domestic science [classes]." Am. museum of nat. hist. el-jh-sh

634.5 *Peanuts*

Peanuts. 15min 16-si-\$24 1928 Eastman
634.5

"Shows preparation of the ground: plowing, distributing lime, planting—harvesting: digging, loading shocks, picking pods—peanut products: cooking, salting, making peanut butter and peanut candy." Producer el-jh Guide

Peanuts—\$30,000,000 worth. 1R 35-si-nf-loan 1923 U.S. agric. 634.5

A Bureau of plant industry film
"Culture of America's peanut crop in Virginia and the Carolinas, from the preparation of the soil to delivery at the shelling factory." Producer

634.7 *Small fruits*

About bananas. 15min 16-si-loan 1935
Castle 634.7

This film takes the place of an earlier one titled "Banana land"

"Complete presentation of the banana industry from the clearing of the jungle and the planting to the shipment of the fruit to the American markets. Scenes laid in Central America." Wisconsin

"[Useful in] geography, commercial geography, nature study and domestic science [classes]." Am. museum of nat. hist. el-jh Guide

634.9 *Forestry*

A B C of forestry. 1R 16-si-sd-loan 35-si-sd-nf-loan 1933 U.S. agric. 634.9

A Forest service film
Teaches the fundamentals of tree growth and good forestry practices

Big game and the national forests. 1R 16-si-loan 35-si-nf-loan 1933 U.S. agric. 634.9

A Forest service film in cooperation with the Bureau of biological survey

"Brings out the relation of the national forests to the preservation of big game and discusses management problems." Producer

Forest and health. 1R 16-si-sd-loan 35-si-sd-nf-loan 1928 U.S. agric. 634.9

A Forest service film
"How the forests minister to the spiritual and physical health of mankind." Producer

Forest and wealth. 1R 16-si-sd-loan 35-si-sd-nf-loan 1928 U.S. agric. 634.9

A Forest service film
"How the forest contributes to industry and to the comfort and wealth of mankind." Producer

Forest or wasteland. 3R 16-si-sd-loan 35-si-sd-nf-loan 1931 U.S. agric. 634.9

A Forest service film
"Shows what the forests mean to us; how forests have been cut, until the land is stripped and fires and destruction follow; constructive measures adopted that have proved inadequate; and considers the question: What must we do about our forests?" California
Withdrawn

jh-sh

Forests and streams. 1R 16-si-loan 35-si-nf-loan 1931 U.S. agric. 634.9

A Forest service film
"To teach the importance of protecting the forest soil and maintaining its water-storage capacity." Producer

jh-sh-c

Forests serve man. 1R 16-sd-loan 35-sd-nf-loan 1935 U.S. agric. 634.9

A Forest service film
"Illustrated lecture on the importance of forests to mankind." Producer

How forests serve. 1R 16-si-loan 35-si-nf-loan 1931 U.S. agric. 634.9

A Forest service film
"Designed to teach the values of the forest to mankind and the importance of proper management of the forest." Producer

Reforestation. 15min 16-si-\$24 1928 Eastman 634.9

"Picture opens with a scene in a country schoolroom where instructor is showing some motion pictures; close-up on screen shows fine forest regions; a desolate forest 'fades in.' Close-up shows result of wasteful cutting. A reforested region. A tree nursery, workmen loading 10,000 red pine seedlings, 'heeling-in' seedlings. A school project, pupils planting seedlings in barren area. Proper methods of planting are shown. Results after three, five, and ten years of growth are shown." Ohio el-jh-sh-c Guide

634.909 CIVILIAN CONSERVATION CORPS

CCC accomplishments in Pennsylvania. 15min 16-sd-loan 35-sd-nf-loan 1935
Dept. of interior 634.909

"Covering work in North and South parks, Allegheny County (near Pittsburgh); Cook Forest State Park at Cooksburg, Pennsylvania; five parks in the vicinity of Johnstown, Pennsylvania, and the French Creek recreational area between Reading and Philadelphia." Producer

el-jh

Civilian conservation corps at work—Arizona. 1R 16-si-loan 35-si-nf-loan 1934
U.S. agric. 634.909

A Forest service film
"A typical CCC camp, and some of the activities of the men in forestry, road improvement, and various other projects." Kansas el-jh-sh-c

Civilian conservation corps at work—Colorado, Wyoming, and South Dakota. 1R 35-si-nf-loan 1934 U.S. agric. 634.909

A Forest service film describing various phases of the work

Civilian conservation corps at work—Montana and Idaho. 1R 16-si-loan 35-si-nf-loan 1934 U.S. agric. 634.909

A Forest service film
"On various phases of Civilian Conservation Corps work." Producer
el-jh-sh-c

Civilian conservation corps at work—mosquito control. 1R 16-si-loan 35-si-nf-loan 1934 U.S. agric. 634.909

A Forest service film
"Digging ditches to provide quick runoff of out-going tidewater in salt-marsh lands of Delaware." Producer
el-jh-sh-c

Civilian conservation corps at work—Oregon and Washington. 1R 16-si-loan 35-si-nf-loan 1934 U.S. agric. 634.909

A Forest service film
"On various phases of Civilian Conservation Corps work." Producer
el-jh-sh-c

Civilian conservation corps at work—Utah and southern Idaho. 1R 16-si-loan 35-si-nf-loan 1934 U.S. agric. 634.909

A Forest service film
"On various phases of Civilian Conservation Corps work." Producer
el-jh-sh-c

Forests and men. 1R 16-sd-loan 35-sd-nf-loan U.S. agric. 634.909

"Lecture on the work of the Civilian Conservation Corps. Portrays representative activities throughout the country." Producer
Jh-sh-c

We can take it. 2R 16-si-loan 35-si-nf-loan 1935 U.S. agric. 634.909

A Forest service film
"Shows what the Civilian Conservation Corps is doing in California." Producer

634.92 FOREST FIRES

Enemy of the forest. (Seeing Canada ser.) 12min 16-si-\$12.18 35-si-nf-apply Canadian gov't. 634.92

French edition also

"An educational fire-prevention picture showing the evils of carelessness in the woods, the disastrous results therefrom, and steps taken towards fire-protection in forests. [Useful in] nature study, biology, general science and geography [classes]." Am. museum of nat. hist.

el-jh-sh

Fighting forest fires. (Seeing Canada ser.) 8min 16-si-\$7.89 35-si-nf-apply Canadian gov't. 634.92

"Shows how Canada combats the fire menace in the forests. The look-out tower, the canoe, the gasoline speeder, and the aeroplanes all serve to keep the woods green." Massachusetts

Forest fire fighters of the skies. (Seeing Canada ser.) 10min 16-si-\$15.78 35-si-nf-apply Canadian gov't. 634.92

"This film depicts how one country protects its forests from the ravages of fire by aerial patrol and service. Shows operations of air station; aerial patrol over forest; transportation of fire-fighting apparatus to scenes of conflagrations by air; actual fighting of fires by aerial forest protection forces." Illinois

Good turns for our forests. 1R 16-si-loan 35-si-nf-loan U.S. agric. 634.92

A Forest service film
"How the Boy Scouts of America are aiding forest conservation through preventing forest fires. A boy-scout pageant in Washington; miscellaneous scenic views from various national forests; and forest fire scenes." Texas

It might have been you. 1R 16-si-loan 35-si-nf-loan 1933 U.S. agric. 634.92

A Forest service film
"Portrays a disastrous forest fire that in 7 hours destroyed over 23,000 acres of timber and 25 ranch houses and rendered over 100 people homeless—all due to the carelessness of a ranch hand. Shows what the Forest Service is doing to prevent such a catastrophe." California

635 Gardening

Fruits and flowers. (Nature study ser.) 12min 16-si-\$24 35-si-nf-\$80 1926? DeVry 635

By G. Clyde Fisher, of the American museum of natural history
"Intended to carry through the gardening impulses of 'Preparing for a garden,' (listed below) and 'Growing things' (also listed below) to a successful and completed garden." Producer

el-jh Guide

Growing things. (Nature study ser.) 12min 16-si-\$24 35-si-nf-\$80 1926? DeVry 635

By G. Clyde Fisher, of the American museum of natural history
"Garden cultivation, planting seeds and bulbs. Slow and stop motion photography showing germination of seeds." Massachusetts

el-jh Guide

Market gardening. 15min 16-si-\$24 1929 Eastman 635

Comparison of greenhouse construction and gardening with outdoor gardening in the South. Also the marketing of produce by refrigerator cars

el-jh-sh-c Guide

Preparing for a garden. (Nature study ser.) 24min 16-si-\$48 35-si-nf-\$80 DeVry 635

By G. Clyde Fisher of the American museum of natural history
Either reel may be obtained separately. Reel 1 shows why a plot should be cleared and how to do it; how to make a compost pile, fertilize, spade; providing of hot beds and shelters. Reel 2 is the planning and planting of the garden and the study of germination

el-jh Guide

635.2 *Potatoes*

Hidden foes in seed potatoes. 1R 35-si-nf-loan 1924 U.S. agric. 635.2

An Extension service and Bureau of plant industry film

"Comparison of the crop yield of a farmer who used selected seed potatoes and one who did not. Experiences on the potato tour, with some degeneration diseases of potatoes, are shown." Colorado

How and why of spuds. 1R 35-si-nf-loan 1920 U.S. agric. 635.2

A Bureau of plant industry film

"Potato industry from producer to consumer. Modern methods of commercial production. Of general interest." Indiana Withdrawn.

Jh-sh-c

Potatoes—early and late. 1R 35-si-nf-loan 1922 U.S. agric. 635.2

A Bureau of plant industry film

"How the potato, unknown to the Old World until the discovery of the western hemisphere, came to be called 'Irish'; methods of growing and harvesting early and late potatoes in the Norfolk district of Virginia and New Jersey." Indiana

Guide

635.3 *Cabbages*

Cabbage. (Natural history ser.) 8min 16-sd-apply 35-sd-f-apply Gaumont British 635.3

"The film falls into two related sections: the first part shows, by fast motion . . . the germination, growth-characteristic and fertilisation of the wild cabbage; the second part shows how the varied forms of cultivated cabbage—Savoys, Brussels sprouts, cauliflowers, sprouting broccoli—are related to the wild form, by illustrating the particular feature of the wild form that is present to an exaggerated degree in the cultivated variety. . . . A very good example of how to deal with familiar gardening knowledge in an interesting manner, while at the same time using everyday facts to bring home the scientific lessons that can be drawn therefrom. . . . Perhaps the most striking portions of the whole film are the sections showing which parts of the wild form have been greatly developed to produce the Brussels sprouts, cauliflower, or the Savoy cabbage. . . . [Useful in: botany or nature study [classes]] British film inst.

el-jh-sh-c Guide

635.659 *Peanuts.* See 634.5636 *Domestic animals*

Friends to man. (Nature study ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 636

By G. Clyde Fisher, of the American museum of natural history

"The general aim of this lesson is to show the interdependence of man and animals, developing the services that many animals render man, and the obligation of kindness and care this service imposes. The specific aim of this lesson is a study of ruminants, especially sheep, cows, deer, goats and camels; their habits, their economic value and the particular cud-chewing arrangement that causes them to be called ruminants." Iowa univ.

el-jh Guide

Pets. (Nature study ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 636

By G. Clyde Fisher, of the American museum of natural history

"The picture shows kinds and habits of cats and dogs; their use to man as companions, watchers, hunters, life savers, shepherds, draught animals, and ratters, care of pets, training methods; and related wild animals, wolf, fox, lion, tiger, leopard, lynx." Iowa univ.

el-jh Guide

636.1 *Horses*

Horse and man. 1R 16-si-loan 35-si-nf-loan 1926 U.S. agric. 636.1

A Bureau of animal industry film

An acknowledgment of the horse's part in the conquest of the New World and in modern American life. Indian ponies, cow horses, plow horses, cavalry mounts, race horses, hunters, truck horses, and bucking bronchos

Horse in motion. 1R 16-si-loan 35-si-nf-loan 1922 U.S. agric. 636.1

A Bureau of animal industry film

"A study of the various gaits of horses, first at normal speed and then analyzed by means of slow motion photography. This film shows draft horses, pacers, trotters, runners, hunters, cavalry, and police horses." Iowa state college

jh-sh-c

636.2 *Cattle*

Beefsteak bequest. 1R 35-si-nf-loan 1928 U.S. agric. 636.2

A Bureau of animal industry film

"Description of the livestock breeding work being done at Sni-a-Bar Experimental Farm, near Kansas City, Mo." Iowa state college

sh-c

Blood will tell. 1R 35-si-nf-loan 1927 U.S. agric. 636.2

A Bureau of dairy industry film

"A county anti-scrub bull campaign paves the way for better sires and prosperity for the dairyman." Iowa state college

sh-c

Cattle. 15min 16-si-\$24 1928 Eastman 636.2

"Cowboys herd cattle, live out on the range, shoe their horses, round up the cattle, and 'dip' them to kill parasitic ticks. Alfalfa is cut with a mower. Then it is raked up and stacked. A modern hay-loading machine is seen in operation. Cattle are shown feeding from racks during the winter months. A herd of cattle is driven toward the railway. A stampede occurs at the station, but the cattle are rounded up, driven back to the loading platform, up the runways, and into cars. Typical scenes at a rodeo show the skill of the cowboy." Producer

el-jh-sh-c Guide

Cattle ranch. (Ford educational lib.) 1R 16-si-\$15 35-si-nf-\$40 1922 Ford 636.2

"In the western cattle country; the cowboy; life on the range; wild horses; equipment of the cowboy; roping; the ranch; beef producers; spring roundup." Iowa state college

Cow business. 2R 16-si-loan 35-si-nf-loan
1926 U.S. agric. 636.2

A Bureau of animal industry film

"Beef-cattle industry in the western United States, contrasting methods of the early cowman with present practice. The cutting gate, branding and vaccinating chute, dipping vat, summer range, winter-feed lots, and horse production on modern ranches." Producer

Dairy cattle and their selection. 15min
16-si-\$24 35-si-nf-\$55 1921 Soc. for
visual educ. 636.2

"Shows that among domestic animals the highly-developed dairy cow is the most efficient producer of human food. By close attention to the physical conformation, the higher producing cattle can be selected. The film shows clearly that some cows are more productive than others, even with the same feed and care—that physical conformation is a vital factor in milk production—and shows just how constitution, feeding capacity, formation of milking organs, etc. affect production." Producer

jh-sh Guide

Dairy cattle—breeds, types and characteristics. 15min 16-si-\$24 35-si-nf \$55 1922
Soc. for visual educ. 636.2

"Showing the five important dairy breeds—Holstein, Jersey, Guernsey, Ayrshire, and Brown Swiss—together with the characteristics of these respective types, their origin and the history of their introduction into the United States. Excellent animated diagrams present the quick and economical effect of a pure-bred bull in improving a herd." Iowa state college

jh-sh Guide

Tale of two bulls. 1R 16-si-loan 35-si-nf-loan 1922 U.S. agric. 636.2

A Bureau of dairy industry film

"Animated cartoon showing value of pure-bred sire to the herd." Washington

When the cows come home. 1R 16-si-sd-loan 35-si-sd-nf-loan 1932 U.S. agric. 636.2

A Bureau of dairy industry film with a lecture by Dr. J. C. McDowell

"Discusses the work and progress, of dairy herd improvement, and illustrates studies of factors that influence the production of milk and butter fat per cow." Iowa state college

636.29 CAMELS

Ship of the desert. 8min 16-si-\$12 1933
Eastman 636.29

"The camel is shown at its work in the forbidding desert waste lands. Arabs and their families, camels and young, Bedouin caravans, and scenes at an oasis are included in the film." Producer

el

636.3 Sheep

Range sheep. 15min 16-si-\$24 1930 Eastman 636.3

Orphan lambs are fed from bottles. Sheep are sheared, marked and counted and put to pasture in the summer. In the fall some are picked for market and the rest of the flock are cared for during the winter

el-jh Guide

636.4 Swine

Behind the breakfast plate. 1R 16-si-loan 35-si-nf-loan 1922 U.S. agric. 636.4

A Bureau of animal industry film

"The story of bacon from the pastures of the corn belt thru the stockyards and the packing plants to your breakfast plate; curing of bacon in early colonial homes; evolution of the hog business." Indiana

sh

How to grow hogs. 2R 35-si-nf-loan U.S. agric. 636.4

A Bureau of animal industry film

Scenes taken on the Experimental farm of the Bureau of animal industry at Beltsville, Maryland, where the practices were developed, showing points to be considered in the selection of hogs for breeding purposes, care of the sow before and after farrowing and the feeding and handling of pigs up to marketing time

636.5 Poultry

Brooding and rearing chicks. 2R 35-si-nf-loan 1930 U.S. agric. 636.5

A Bureau of animal industry film

Up-to-date procedure in handling chicks in the brood

Care of baby chicks. 2R 35-si-nf-loan 1929 U.S. agric. 636.5

A Bureau of animal industry film

"Pa and Ma Stubblefield enter the early-chick business. Shows the proper care and feeding of baby chicks." Producer

sh-c

Egg marketing industry in the United States. 2R 35-si-nf-loan 1930 U.S. agric. 636.5

A Bureau of agricultural economics film

"Modern processes in egg raising; weighing; candling; cleaning; packing; preparing for export; frozen eggs; distribution plans." Iowa state college

sh-c

Layers or loafers. 1R 35-si-nf-loan 1930 U.S. agric. 636.5

An Extension service film. Replaces an earlier film "Layers & Liars"

"Jim Jones, a farmer, attends a demonstration given by the County Agent on poultry culling. Here he sees the characteristics of good and poor layers. The plan is tried out and it is successful." Iowa state college

Preparation and marketing of dressed poultry. 2R 16-si-loan 35-si-nf-loan 1932 U.S. agric. 636.5

A Bureau of agricultural economics film

"Methods of grading live poultry; feeding and care of feeding room; picking, precooling, and packing; a synopsis of the Long Island duck industry; cold storage of poultry; Government grades for dressed poultry." Producer

jh-sh-c

Producing quality chicks. 1R 35-si-nf-loan 1929 U.S. agric. 636.5

A Bureau of animal industry film

"A baby chick tells its story. Scenes in a modern, up-to-date hatchery; how poor chicks grow up to be poor stock; advantages of standard bred flock; culling flocks; extra fence and double yard system; sanitation." Iowa state college

636.59 DUCKS. TURKEYS

American eider duck. (Seeing Canada ser.)
5min 16-si-\$8.58 35-si-nf-\$43.20 Cana-
dian gov't. 636.59

Bilingual titles

The American eider duck, how it lives,
nests and breeds its young, and also views
of how eider-down is collected, cleaned and
prepared for use in the manufacture of
eider-down quilts and pillows
"Useful in biology, nature study and
domestic science [classes]" Am. museum
of nat. hist. el-jh-sh

Turkey business. 1R 35-si-nf-loan 1930
U.S. agric. 636.59

A Bureau of animal industry film

"Shows where turkeys are raised for
market and modern methods of feeding and
management." Producer

636.7 Dogs

Work dogs of the North. 15min 16-si-\$15
35-si-f-nf-\$50 1926? Church 636.7

Produced by Captain Jack Robertson

"Shows how dogs . . . have played a
large part in the conquering and building
up of the far north. Some of the sequences
covered are: sled dogs; their treatment;
how they are assisted in breaking trail;
what they are fed; how moccasins protect
their feet; how they help pull boats up-
stream; how they are 'boarded out' in the
summer; breeds; how they are used as
pack dogs." Wisconsin

636.9 Fur-bearing animals

Fur industry of the United States. 3R
16-si-loan 35-si-nf-loan 1930 U.S. agric.
636.9

A Bureau of biological survey film

"Presents a comprehensive survey of the
fur resources of the United States; the dif-
ferent types of fur farms; utilization of
fur." Illinois Jh-sh-c

Rabbit farming. 2R 16-si-loan 35-si-nf-loan
1932 U.S. agric. 636.9

May also be obtained in a 1R version (16-
si-loan 35-si-nf-loan)

"Breeds of domestic rabbits; rabbitries of
various types; possibilities of rabbits for
meat and fur." Producer

637 Dairy and dairy products

Along the milky way. 25min 16-si-loan
1929 Borden 637

"Showing the production and handling of
clean milk. An attractive picture suited
for a general audience." N.Y. (State).
Dept. of health

A special high school version of this is
obtainable under the title: Science, guar-
dian of our milk supply (2R 16-si-loan)
el

Better way of milking. 10min 16-si-loan
35-si-nf-loan De Laval 637

"Circulation of blood of cow and secre-
tion of milk in udder shown by animated
diagrams. Operation and construction of
DeLaval Mechanical Milker shown by
animated drawings, diagrams and pic-
tures." Missouri

Dairy management. 2R 16-si-apply 35-si-
nf-apply Soc. for visual educ. 637

"Portrays the dairyman's life; feeding
and milking cows; weighing milk; the milk
station; the silo; the farm buildings; sani-
tary stables; water supply; machinery; im-
portance of raising young stock, and all
that is involved in the important phases
of this agricultural pursuit." Texas
sh-c—Guide

Good foods—milk. 5min 16-si-\$6 1930
Eastman 637

"Scenes at a dairy farm: grazing cows,
a suckling calf, the farmer milking, and
the farm-boy icing milk. A milkman de-
livers bottled milk to a city home. Kit-
tens drink eagerly from a saucer of milk.
A boy enjoys milk with his dinner. Chil-
dren drink it in a school lunchroom."
Producer el-jh Guide

Milk as food. (Ford educational library
ser.) 1R 16-si-\$15 35-si-nf-\$40 1922?
Ford 637

"The film is designed to give an intelli-
gent conception of the methods of han-
dling and safeguarding milk from the
cow to the consumer. A model dairy is
visited and each step in caring for the
milk is examined. The value of milk for
rapidly building up undernourished chil-
dren is emphasized." Indiana

Milk for you and me. 4min 35-si-nf-loan
1925 U.S. agric. 637

A Bureau of dairy industry film

"For use in Milk-for-Health week cam-
paigns. Shows persons of all ages and of
all walks of life drinking milk." Producer
el-jh-sh

Milky way. 15min 16-si-apply 1935 Dairy-
men's league 637

Production of milk in New York state
el Guide

Quality milk. 1R 35-si-nf-loan 1930 U.S.
agric. 637

A Bureau of dairy industry film

"Approved methods of dairying for high-
quality production. Of interest to con-
sumers of milk as well as to dairymen."
Producer sh-c

Wisconsin dairies. 15min 16-si-\$24 1927
Eastman 637

Production of milk on a small farm is
contrasted with production on a large
farm. A small herd of Holsteins is driven
home by a boy and a dog. The cows are
milked and the milk taken to the dairy
where it is strained and cooled. Then the
milk cans are collected from the farm.
In the second unit we see a large herd in
summer pasture, and then in a winter
barn. Automatic milkers are shown and
the milk is prepared for market. Unit 3
shows how cans of milk are emptied into
large vats and pasteurized in a modern
dairy. Clean bottles are filled and capped
by automatic machinery and the milk
shipped to the city in refrigerator and
tank cars el-jh-sh-c Guide

639 Fisheries

**Boats and fishermen of the Arctic and
Tropics.** (Harvard Pathe ser.) 1R 16-
si-\$24 35-si-nf-\$60 1928 Films of com-
merce 639

"A contrast of boat types and methods
of fishing used by the Central Eskimo
and the Fiji Islanders. Excellent views of

Boats and fishermen—Continued

the sailing of out-rigger canoes, the use of kayaks and umiaks, and the methods of fish-spearing used by both peoples." Indiana

Should be shown after 'Houses of the Arctic and Tropics' [class 728]

Fish and fishing for everybody. (Seeing Canada ser.) 10min 16-si-\$9.81 35-si-nf-apply Canadian gov't. 639

"Government hatchery at Thurlow, Canada; 100 million whitefish in jars; care in stirring and tending until large enough to put into lakes; hatching of whitefish." Minnesota

"Useful in biology and nature study [classes]" Am. museum of nat. hist.

el-jh-sh

From catch to can. (Seeing Canada ser.) 8min 16-si-\$8.04 35-si-nf-apply Canadian gov't. 639

"Deals with the sardine industry on the east coast of Canada, and shows the entire industrial operations from the time the sardine is caught in the weirs until it reaches the lithographed can." Indiana

"Useful in geography, commercial geography, domestic science and nature study [classes]" Am. museum of nat. hist.

el-jh-sh

Harvesting the deep. (Seeing Canada ser.) 5min 16-si-\$7.02 35-si-nf-apply Canadian gov't. 639

"Depicts Nova Scotia fishermen gathering their harvest of cod, haddock, flounders and other fish off the Cape Sable Banks. [Useful in] geography, commercial geography and nature study [classes]" Am. museum of nat. hist.

jh-sh

Inshore fishing on the Atlantic coast. (Seeing Canada ser.) 5min 16-si-\$8.37 35-si-nf-apply Canadian gov't. 639

"A highly interesting marine picture produced in cooperation with the Department of Marine and Fisheries, showing the work of Canada's Atlantic fishermen. [Useful in] geography and commercial geography [classes]" Am. museum of nat. hist.

el-jh

Maintaining the salmon supply. (Seeing Canada ser.) 8min 16-si-\$10.74 35-si-nf-apply Canadian gov't. 639

"One of a series of films describing Canada's fisheries. It depicts the Sockeye Salmon Hatchery operations at Lakelse, Skeena River District, British Columbia." Massachusetts

jh-sh

New England fisheries—cod. 15min 16-si-\$24 1927 Eastman 639

"Outlines the equipping and loading of a schooner for a trip to the Grand Banks—setting trawls and catching fish—unloading—preparing cod for market." Producer

el-jh-sh-c Guide

New England fisheries—mackerel. 8min 16-si-\$12 1928 Eastman 639

"A school of mackerel is sighted, the seine boat puts off, the fish are caught and loaded on the steamer which takes them to shore, where they are prepared for market." Producer

el-jh-sh Guide

On the Skeena river. (Seeing Canada ser.) 8min 16-si-\$8.40 35-si-nf-apply Canadian gov't. 639

"A film dealing with the salmon fisheries on the world's greatest salmon stream, showing the methods of catching and the preparation of fish in the canneries. This is one of the series of subjects on Canada's extensive fisheries." Producer

jh-sh

Salmon fishing on the Skeena. (Seeing Canada ser.) 8min 16-si-\$11.28 35-si-nf-apply Canadian gov't. 639

"An industrial film depicting different methods used in catching salmon, and disclosing the vastness of this industry in the vicinity of Prince Rupert, B.C." Producer

el-jh-sh-c

Shark fishing. 15min 16-si-\$24 1931 Eastman 639

"Shark-fishing industry . . . The catching of spotted eagle ray, salt-water crawfish, porpoise, barracuda, and small sharks for shark bait. The landing of a tiger shark. Tanning of shark hides and typical shark leather products are shown." Indiana

el-jh Guide

Story of a can of salmon. (Seeing Canada ser.) 8min 16-si-\$11.19 35-si-nf-apply Canadian gov't. 639

Non-technical picture of how salmon is canned in the great canneries of British Columbia, from delivering the catch at the cannery to the completed product

"Useful in geography, commercial geography and domestic science [classes]" Am. museum of nat. hist.

jh

Trapping tuna. (Seeing Canada ser.) 6min 16-si-\$9.69 35-si-nf-apply Canadian gov't. 639

"An intensely interesting educational picture treating of a comparatively new industry on the east coast of Canada." Texas

jh

Viking. 6R 16-sd-apply 35-sd-f-nf-apply Edwards 639

Produced by Newfoundland Labrador film company and is also available in a 4R version (16-sd-apply 35-sd-f-nf-apply)

A dramatic story of the sealing fleet pushing its way thru the frozen North, using dynamite when necessary, and the search for seals off the coast of Labrador. Captain "Bob" Bartlett plays the roll of captain of one of the ships. In a spoken prologue Sir Wilfred Grenfell vouches for the authenticity of this film

640 HOME ECONOMICS

Courage of Kay. 4R 16-sd-\$69 35-sd-f-nf-\$110-\$150 Wadsworth 640

This film was produced in Hollywood by Mason Wadsworth. The script is by Philip Hurn and the production was supervised by Hobart Brownell. In the cast are Lois Wilson and Lloyd Hughes, supported by other well-known actors

"The Courage of Kay" was created to bring more effectively to the women of America a new, broad interest in kitchen modernization in all its aspects, and present the opportunity The National Housing Act offers for immediate action . . . Although the main theme of the picture is kitchen modernization with electrical

Courage of Kay—Continued

equipment, the products of non-electrical manufacturers, who defrayed the considerable cost of producing the film, are mentioned. In each case, mention of such product is brief and so incorporated in the film as not to interrupt the action or interest." Producer

Home demonstration work in the western states. 2R 16-si-loan 35-si-nf-loan 1934 U.S. agric. 640

An Extension service film
Shows farm people how to improve their homes and to enjoy them after outlining in a general way the scope of home demonstration work in the West

Home demonstration work—what it is and does. 3R 35-si-sd-nf-loan U.S. agric. 640

An Extension service film
"The scope of home demonstration work; representative scenes in various parts of the country." Producer

641.5 *Cookery*

Baking powder in frying batter. (Domestic science ser.) 4min 16-sd-apply 35-sd-f-apply Gaumont British 641.5
Should be useful in domestic science classes as illustrative of methods
Guide

Making pork pies. (Domestic science ser.) 7min 16-sd-apply 35-sd-f-apply Gaumont British 641.5
Should be useful in domestic science classes as illustrative of methods
Guide

Making rabbit pies. (Domestic science ser.) 8min 16-sd-apply 35-sd-f-apply Gaumont British 641.5
Should be useful in domestic science classes as illustrative of methods
Guide

644 *Fire.* See 536649 *Nursing.* Care of children

Garden of childhood. 15min 16-si-loan 35-si-nf-loan 1930? John Hancock 649
"Depicting a well-ordered routine of rest, play, sleep, and physical inspection for preschool children. Interesting to any group that is studying any of the various phases of preschool hygiene." Colorado

Henry street visiting nurse service. 2R 16-si-\$35 35-si-f-nf-\$50-\$65 Henry st. 649
This might well be considered a vocational film showing as it does many of the duties and services of the nurses of the Henry street visiting nurse service. Shows a nurse caring for an elderly patient. A clinic in Queens is pictured followed by a visit to a barge on the Hudson river, where a colored nurse is seen instructing a mother in the care of her baby. The second reel shows a visit to a new-born baby. Next a 12 year old child in Manhattan is treated and finally a baby's bath is demonstrated at a mother's club

Home nursing—routine procedures. 15min 16-si-\$24 1931 Eastman 649
Routine procedures in caring for a convalescent. Taking temperature, counting pulse and respiration. Preparation of patient for breakfast and serving the meal. Finally the patient and the room are arranged for the night
el-jh-sh Guide

Home nursing—special procedures. 12min 16-si-\$18 1931 Eastman 649
"Some special procedures for relieving specific conditions. Wherever repeated applications are required, the proper lapse of time is indicated. The units are: Cold Compresses; Applying Hot Stupes; Giving a Foot Tub to a Patient in Bed; Flaxseed Poulitice; Inhalations." Producer
el-jh-sh Guide

Home nursing—the bed bath. 8min 16-si-\$12 1931 Eastman 649
"Bed bath. Checking the room temperature, preparing the bed, preparing the patient, giving the bath, making the bed without removing the patient from it." Ohio
el-jh-sh Guide

Life of a healthy child. 15min 16-si-\$28 Hill 649
"Activities in a normal child's life, stressing periodical medical and dental examinations, correct posture, proper food, right eating, plenty of water, cleanliness, wholesome exercise and carefree play, carefulness, safety first, approved method of caring for the teeth and mouth, fresh air day and night, sunshine, abundant sleep, right thinking, and a contented mind. Approved and used by the American Dental Association." Producer

650 *BUSINESS*652 *Typewriting*

Teaching beginners how to typewrite. 17min 16-si-\$30 1935 Hudson 652
"This film clearly illustrates the fundamentals of correct typewriting technique. Generous use of the close-up and slow-motion gives every student in the class a definite impression of proper position and action." Utah
Guide

653 *Shorthand*

Correct shorthand technique. 20min 16-si-\$30 1934 Hudson 653
Companion film to "Teaching beginners how to typewrite", class 652
"Designed to be of greatest value during the first weeks of shorthand practice. By its use, the goal of correct writing technique is presented to the class in a form so simple that the acquiring of the necessary smooth, easy style becomes a matter of imitation." Kansas
Guide

655 *Printing*

Books—from manuscript to classroom. 17min 16-si-sd-loan 1935 Winston 655
"An entire new picture, new characters, new scenes, more close-ups, new story, and a new dress for the new Miss Ella Men-try." Producer

Books—from manuscript to classroom—
—*Continued*

"The motion picture story of a text-book; the typesetting, presses, trimming and all other processes in making a book are shown." Colorado

Making a book. 15min 16-si-\$24 1931
Eastman 655

"The manufacture of paper, editing of manuscripts, hand and machine composition, electrotyping of the text, and the making of halftone illustrations. Sheets of paper are printed, folded, cut, assembled, sewed into book form, trimmed, and bound." Producer
Jh-sh Guide

658 Business methods

Executive. (Vocational guidance ser.)
12min 16-si-\$24 35-si-nf-\$80 prior 1927
DeVry 658

A vocational film by Fred C. Smith, formerly editor, Magazine of vocational guidance, Harvard university
"What a modern executive does in his position, during his leisure time; the traits of character, attitudes, and ideals a successful executive must have; type of knowledge necessary and how it may be obtained." Texas
Jh-sh Guide

Salesman. (Vocational guidance ser.)
12min 16-si-\$24 35-si-nf-\$80 prior 1927
DeVry 658

A vocational film by Fred C. Smith, formerly editor, Magazine of vocational guidance, Harvard university
"His daily occupation, the principles of salesmanship, magnitude of sales effort and its relationship to production and basic costs of a product, type of personality and preparation needed to make a good salesman." Texas
Jh-sh Guide

660 CHEMICAL TECHNOLOGY

For the films on chemistry as a science, see class 540

662 Fuels. Explosives

662.2 Explosives

Explosives engineer. 30min 16-si-loan 35-si-nf-loan Hercules 662.2

Also obtainable in another version (15 min 16-si-loan 35-si-nf-loan prior 1927 Bur. of mines)

"The research that is being done on explosives; various tests; how the explosives engineer has assisted in industry." Iowa state college sh-c

Modern Hercules. 15min 16-si-loan 35-si-nf-loan Hercules 662.2

The many operations in making dynamite, from the mixing of the nitro-glycerin to the packing of the finished cartridges in the cases and loading them on the railroad cars

Story of dynamite. 30min 35-si-nf-loan prior 1927 Bur. of mines 662.2

Made in cooperation with E. I. du Pont de Nemours & company

"A good picture of the dynamite industry showing that dynamite is an eco-

nomie factor in mining, quarrying, ditch digging, razing, buildings, breaking snow and ice jams." Texas
sh-trade

662.6 Coal

See Coal mining, 622.33. For the sake of keeping all material about coal together, the number 662.6 has not been used

663 Beverages

Behind the cup. 30min 16-si-loan 35-si-nf-loan 1933 Church 663

The story of Hills bros. coffee
The complete story of coffee from the planting of the trees to the cup. Most of the filming was done in Guatemala, Central America Jh

Coffee. 15min 16-si-\$24 1931 Eastman 663

As typical of the industry everywhere we see here the story of coffee grown in South America, including views of Colombia. Treats coffee growing, hulling and cleaning, shipping coffee, preparing for market el-jh Guide

Magic of the mountains. 1R 16-si-loan 35-si-nf-loan YMCA 663

Produced by Ganz for the Great Atlantic & Pacific tea company
"A travelogue throughout coffee producing regions of South America, illustrating the cultivating, milling and exporting of this commodity." Distributor
el-jh-sh-c

664 Foods

664.1 Sugar

Beet and cane sugar. 15min 16-si-\$24 1930
Eastman 664.1

"Cutting cane, thinning sugar beets, bagging sugar, animated map locating sugar areas. Sugar beets, animated map locating beet areas, planting sugar beets, thinning, harvesting, washing, slicing, cooking, diffusion, drying pulp, refining juice. Cane sugar, animated map locating cane areas, cutting cane, shipping, crushing, filtering juice, evaporating, separating sugar from liquid, drying sugar, storing, molding cubes." Ohio
el-jh-sh-c Guide

Harvest of the sugar maple tree. (Seeing Canada ser.) 6min 16-si-\$10.50 35-si-nf-apply Canadian gov't. 664.1

"Life in the sugar bush, demonstrating the old and new methods of tapping maple trees, of gathering sap, and transporting it to the kettles. It shows the boiling in modern evaporators, the bottling and canning of the maple syrup in the factory, and finally, an old-fashioned sugar bush party." Producer

"[Useful in] geography and nature study [classes]" Am. museum of nat. hist.
Jh

Island of sugar. 1R 16-si-loan 35-si-f-nf-loan General electric 664.1

"Shows the world's greatest achievement in the cane sugar industry. We see 110,000 acres of dense forest transformed into a modern plantation, and the largest sugar

Island of sugar—Continued

mill in the world built and put in operation in ten months. Everyone should know how cane sugar is produced and this film tells the story. It also shows many beautiful scenes in and around Havana, including the home and gardens of the President of the Republic. [Useful in] geography and commercial geography [classes]. Am. museum of nat. hist.

el-jh-sh

Maple syrup and sugar. 12min 16-si-\$18
1930 Eastman 664.1

Comparison of methods used in a small and large camp for tree tapping, collecting and boiling of sap. Canning and bottling of syrup and making of maple sugar

el-jh Guide

Sugar trail. 1R 16-si-loan 35-si-f-nf-loan
General electric 664.1

"Illustrates methods employed in the sugar industry, beginning with the cultivation of the wild beet. Harvesting and manufacturing processes are exemplified, and animated statistics show the extent of the world's consumption of sugar." Colorado
jh

Vermont's maple industry. 30min 16-si-loan 1935 YMCA 664.1

Produced by H. H. Chadwick
This film which shows the making of maple sugar and syrup is sponsored by the Department of conservation and development of the State of Vermont

el-jh-sh

664.2 Tapioca

Across the seven seas. 15min 16-si-loan
35-si-nf-loan 1935 YMCA 664.2

Produced by A. Legget and sponsored by General foods sales company. First filmed 1929, re-edited 1935

"Story of tapioca; the Island of Java; scenes on the island; ancient relics; Cassava root; processes in making tapioca." Iowa state college

664.4 Salt

Common salt. 15min 16-si-\$24 1930 Eastman 664.4

"Nature and action of salt. Methods used in extracting, purifying, drying and bagging surface and rock salt deposits." Utah
el-jh Guide

Pillars of salt. 1R 16-si-loan 35-si-f-nf-loan General electric 664.4

"How salt is refined and prepared for market at one of the largest salt mines in the United States. Many of the scenes were taken 1000 feet underground." Producer
jh-sh

664.6 Baking powder

Baking powder. (Domestic science ser.)
9min 16-sd-apply 35-sd-f-apply Gaumont British 664.6

Should be of special interest to domestic science classes

Guide

664.8 Preservation of fruits and vegetables

Capping nature's finest; or Up to date home canning methods. 20min 16-si-loan 1932 Kerr 664.8

Produced by Charles High

"A brief history of the canning process. Shows steps in canning by each of the methods; open kettle, cold pack, and oven canning." Kansas

664.9 Preservation of meat

Honor of the little purple stamp. 1R 35-si-nf-loan 1921 U.S. agric. 664.9

A Bureau of animal industry film

"Federal meat inspection, details and significance." Iowa state college
sh-c

Lamb and mutton for home use. 1R 35-si-nf-loan 1920 U.S. agric. 664.9

A Bureau of animal industry film

"Dressing and preparing lamb and mutton for use on the farm. Close-ups of the various operations from the skinning of the animal to the final preparation of the meat for use. Of interest to sheep-raisers and housekeepers." Indiana

Meat packing. 15min 16-si-\$24 1929 Eastman 664.9

"The complete story of the industry from the time the animal leaves the western plains until it has been made into food products. How cold storage and canning have been responsible for the rapid growth of this great American industry." Indiana
el-jh-sh Guide

665 Oils. Gases**665.3 Turpentine**

Doings of Turp and Tine. 1R 16-si-loan 35-si-nf-loan Hercules 665.3

"Animated comedy showing production of gum and Hercules steam-distilled wood turpentine." Texas
el

665.5 Petroleum

Evolution of the oil industry. 45min 16-si-loan 35-si-nf-loan Bur. of mines 665.5

Made in cooperation with the Sinclair refining company

"Depicts the development of the petroleum industry from the earliest times to the present and emphasizes the importance of petroleum to modern civilization. Some of the scenes include construction of temples by the disciples of Zoroaster over petroleum seepages where the sacred flames were worshipped; burning of petroleum in the sacrificial rites of the Central American Aztecs; use of petroleum for medicinal purposes by the American Indians; pioneer days of the American oil industry showing production and equipment; drilling and operation of modern oil wells; construction of pipe-lines and refineries; transportation by railway tank car and tank ship." Weaver

"[Useful in] history, geography, physiology and commercial geography [classes]" Am. museum of nat. hist.

el-jh-sh

Petroleum, the liquid mineral. 60min 16-si-loan 35-si-nf-loan prior 1927 Bur. of mines 665.5

Made in cooperation with the Pure oil company

"This film shows the production and refining of oil and the distribution and use of refined petroleum products. Glimpses of the Canyon of the Colorado River are shown, scenes showing the use of the seismograph and the torsion balance, drilling of a modern oil well, views of the most notable oil fields, pumping of a group of wells, transportation of crude oil through pipe lines, the recovery of gasoline from natural gas, and a panorama of the flow of vital petroleum to distribution centers. [Useful in] chemistry, general science and commercial geography [classes]" Am. museum of nat. hist.

el-jh-sh

Producing crude oil. 15min 16-si-\$24 1930 Eastman 665.5

"Classes in geography, science, and economics will gain much valuable information from this interesting picture. It is divided into the following units: surveying in the mid-continent oil fields, erection of a derrick, rotary and cable-tool methods of drilling, preparing for the flow, the strike, laying of pipe lines, and the location of our principal oil fields." Iowa univ.

el-jh Guide

Refining crude oil. 15min 16-si-\$24 1930 Eastman 665.5

A series of demonstrations, animations, and photographs, shows the steps in distilling which are concerned with gasoline, kerosene, oil distillate, paraffin wax, fuel oil, lubricating oil, asphalt, and "cracking." Common uses of many of the products

Jh-sh Guide

Refining the crude. 60min 16-si-loan 35-si-nf-loan prior 1927 Bur. of mines 665.5

Made in cooperation with the Gulf refining company

"Reel 1 shows intricacy and magnitude of modern oil refinery; the many products obtained by refining petroleum; and uses of some of these products in everyday life. Crude petroleum is traced from oil well to refinery and through process of straight distillation. Reel 2 pictures cracking process; refining of lubricating fractions; manufacture of chemicals used in refining process; chemical treatment of raw gasoline; and types of gasoline storage tanks. Reel 3 shows separation of wax from paraffin-base crudes; preparation of wax for market; and refining of lubricating distillate. Reel 4 depicts laboratory tests employed to control intricate refining process; illustrates safety, first-aid, and fire-fighting methods and equipment; and shows building of refinery apparatus and shipment of refinery products to consumer." Producer

"[Useful in] chemistry, geography and commercial geography [classes]" Am. museum of nat. hist.

jh-sh

Story of gasoline. 30min 16-si-loan 35-si-nf-loan prior 1927 Bur. of mines 665.5

Made in cooperation with the Standard oil company of Indiana

Story of the gasoline industry from the production of the crude oil to the finished product. Animated photography is used to show manufacturing methods. Illustrates

uses of naphtha, kerosene, gas oil, lubricating oils, fixed gas and coke

"[Useful in] commercial geography and chemistry [classes]" Am. museum of nat. hist.

el-jh-sh

Story of lubricating oil. 30min 16-si-loan 35-si-nf-loan prior 1927 Bur. of mines 665.5

Made in cooperation with the Standard oil company of Indiana

"Reel 1 stresses importance of lubrication to machinery; shows stills used in separating various products from crude oil; explains theory of operation of still by animated drawings; pictures treatment of crude lubricating oil to remove impurities; shows removal of paraffin wax, which would be a harmful constituent; and illustrates separation of oil into various grades in reducing stills, followed by filtration. Reel 2 follows bottom stock remaining after distillation of crude oil through treatment with chemicals to take out impurities, separation of petrolatum by centrifuges and blending of various grades and types of oils to make lubricants for every purpose; also shows flash and viscosity tests in laboratory and application of correct lubricants to automobile, airplane, and Diesel engines." Producer

"[Useful in] geography, physiography, chemistry and commercial geography [classes]" Am. museum of nat. hist.

el-jh-sh

Story of petroleum. 120min 35-si-nf-loan prior 1927 Bur. of mines 665.5

Made in cooperation with the American petroleum institute

Shows the locating of oil-bearing formations; use of seismograph and of torsion balance, drilling with cable tools; setting up of wells; operation of pumping wells; pipe line systems; crude oil in refineries; the refining processes; and views of tankers, barges, tank cars and other carriers

sh-trade

Through oil lands of Europe and Africa—Germany, France, Spain, Morocco, and Algeria. 30min 16-si-loan 35-si-nf-loan prior 1927 Bur. of mines 665.5

Made in cooperation with the American oil company

"Excellent scenic film." Kansas

"[Useful in] geography, physiography, and commercial geography [classes]" Am. museum of nat. hist.

el-jh-sh

Through oil lands of Europe and Africa—Italy, Hungary, the Danube, and Rumania. 30min 16-si-loan 35-si-nf-loan prior 1927 Bur. of mines 665.5

Made in cooperation with the American oil company

"This film includes a panorama of Naples, Mount Vesuvius, oil fields of Villeja, with 200 wells, south of River Po; views of the market place of Mezokovesa, Hungary, with people in fête-day costumes, floating mills in Danube River below Budapest with machinery driven by current, and transportation of oil from Rumanian fields on the Danube by barge. A Rumanian village wedding, the making of mats from reeds, and the transporting of supplies by bullock wagons to the oil fields are also included. [Useful in] geography, physiography, and commercial geography [classes]" Am. museum of nat. hist.

el-jh-sh

Through oil lands of Europe and Africa—
Poland, Greece, and Egypt. 45min 16-
si-loan 35-si-nf-loan prior 1927 Bur.
of mines 665.5

Made in cooperation with the American
oil company

St Jacob's well, one of the oldest in the
world and over 1,000 feet deep, is shown.
Scenes of the Acropolis, Athens; views of
Egypt showing the gates of Cairo; camel
trains starting across the desert; pyramids,
Sphinx, and Egyptian wedding procession;
the entrance to the tomb of King Tut-
ankh-amen. Tankers laden with oil pro-
duced near the Red Sea and refined at Suez
"Useful in history, geography, physiog-
raphy, and commercial geography [classes]"
Am. museum of nat. hist.
el-jh-sh

Through the oil fields of Mexico. 45min
16-si-loan 35-si-nf-loan prior 1927
Bur. of mines 665.5

Made in cooperation with the American
oil company

"General views around the oil fields of
Mexico, 'spouters,' gas-absorption plants,
pump stations, oil shipment, scenic sur-
roundings, including some of the famous
mountains of Mexico, street scenes and na-
tive life. Excellent photography." Colorado
"Useful in geography, physiography,
and commercial geography [classes]" Am.
museum of nat. hist.
jh-sh

666 Ceramics

666.1 Glass

**From desert sands to sparkling glass cre-
ations.** 25min 16-si-loan 1932 Kerr
666.1

Produced by Charles High

"Interesting processes in the manufac-
ture of glass jars from the raw sand of the
desert to the finished product. The film
shows the mixing, heating, and 'blowing'
of the raw material into glass jars and
subsequent capping, sealing, packing and
transportation of the jars to warehouses."
Indiana jh-sh-c

Glass blowing technique. 15min 16-si-\$24
1929 Eastman 666.1

"This is available in 2 parts of 1/2R ea
(16-si-\$12 ea) or as the complete unit given
above

"Part I gives correct procedure and
manipulations for elementary glass blowing
with Pyrex glass. Part II shows the
technique employed in joining tubes of un-
equal diameters, and the method of form-
ing bulbs." Producer
jh-sh Guide

**Glass blowing, with specimens of ancient
and mediaeval blown glass.** 30min 16-
si-\$60 35-si-nf-\$120 1932 Metropolitan
museum 666.1

"The various operations in the blowing,
cutting, polishing, and etching of modern
objects of art in glass and selected spec-
imens of ancient and mediaeval glass from
the Museum's collection." Producer
el-jh-sh-c

Glass magic. 45min 16-si-loan 35-si-nf-loan
1930 Bausch & Lomb 666.1

Produced by Loucks and Norling studios
"Step-by-step explanation of the process
of manufacturing optical glass and lenses
in the factories of one of America's fore-

most distributors of photographic and
projection equipment, beginning with the
making of the glass." Colorado
Guide

Romance of glass. 18min 16-si-loan 35-si-
nf-loan YMCA 666.1

Taken in the Ball brothers plants at
Muncie, Indiana

"The picture begins with a short sketch
of the first production of glass by the
Phoenicians. Views in a modern glass fac-
tory follow, showing the manufacture of
fruit jars." Kansas

666.4 Clay

Fire-clay refractories. 45min 16-si-loan 35-
si-nf-loan prior 1927 Bur. of mines
666.4

Made in cooperation with the Laclede-
Christy clay products company

"Shows mines where fire-clay is ob-
tained, sorting of clay, testing in furnace,
forming of bricks and molding of fire-clay
into various forms by hand; the use of
fire-clay in the glass industry, driving kilns
in the lumbering industry, enameling in-
dustry, heat treating and forge furnaces."
Texas sh-c

668.1 Soap

Soap. 15min 16-si-\$24 1929 Eastman
668.1

"Prepared for use in general science,
household chemistry classes, this film is
designed to acquaint the child with the
underlying principle of soap manufacture,
the main differences between 'hard' and
'soft' waters, and the cleansing action of
soap in each. Home-made soap. Factory-
made soap. How soap works." Indiana
el-jh-sh-c Guide

669 Metallurgy

669.1 Iron and steel

Heat treatment of steel. 30min 16-si-loan
35-si-nf-loan prior 1927 Bur. of mines
669.1

Made in cooperation with the Hupp mo-
tor, car corporation

"Shows blacksmith at work in old-time
shop and present method of heat treat-
ment in furnaces where temperature is
regulated automatically and checked by
pyrometers and signal lights. Depicts
forging of front axles; analyzing of steel
to determine carbon content; bending test
of untreated and treated axles; forging of
steering knuckles with method of harden-
ing and tempering; case-hardening, cy-
aniding, and testing various parts." Weaver
jh-sh-c

Iron ore to pig iron. 15min 16-si-\$24 1927
Eastman 669.1

"Outlines the mining of ore in the Me-
sabi range—its transportation to Duluth
and through the 'Soo' canal to Gary, In-
diana, where it is smelted and cast into
pigs." Producer

"In conjunction with the film, 'Pig Iron
to Steel' [listed below] this reel gives a
clear picture of the steel industry, the
processes involved, and the importance of
iron and steel in our everyday life." Wis-
consin el-jh-sh-c Guide

Pig iron to steel. 15min 16-si-\$24 1927
Eastman 669.1

"Pig iron, melting pigs, casting ladels, blooming mill, taking moulds to stripper, making a billet, ingot passes through blooming mill rolls. Finishing mill, heating billets, rolling mill, shearer, rolling 'I beams' and rails." Ohio

"This film, with the film 'Iron Ore to Pig Iron' listed above, traces the progress of the ore through the mining process to the finished product." Wisconsin
el-jh-sh-c Guide

Story of iron. 75min 16-si-loan 35-si-nf-loan prior 1927 Bur. of mines 669.1

Made in cooperation with the Bethlehem steel corporation, the Youngstown sheet & tube company, and Pickands, Mather & company

Here we see early mining processes in New York; underground mining, use of top-slicing method; surface caving caused by top-slicing, sublevel caving method, room-and-pillar method, open-stope mining; stock-piling, crushing, treatment of crushed ore and shipping; reloading for inland shipping, blast furnaces and casting of pig iron
sh-trade

Story of steel. 90min 16-si-loan 35-si-nf-loan prior 1927 U.S. steel 669.1

Contents: Reels 1-2 Basic processes of making steel; Reel 3 Manufacture of rails, plates, and other hot rolled products; Reel 4 Manufacture of wire products; Reel 5 Manufacture of pipe; Reel 6 Manufacture of sheet steel and tin plate

"While this is a six reel picture the reels are distributed separately if desired. Reels 1 and 2 may be used with any one of reels 3, 4, 5, or 6 to give a complete three-reel picture on the manufacture of a particular product. These reels contain animation of various processes and include many phases of the human side of steel-making. The several distributors have varying numeral designations for these reels. It will therefore be necessary to specify names of reels desired." Producer

669.2 Gold and silver

Gold. 15min 16-si-\$24 1930 Eastman 669.2

"Hydraulic mining in Alaska, using sluice box, dredging, quartz mining, entering mine, drilling, stamping mill, tube mills. Shimmey tables, concentrating tables, mercury separation, cyanide vats, precipitated gold, smelting, gold bullion. Gold dental crown, gold wire, jewelry, gold leaf, gold leaf signs. Making gold coins, stamping blanks, imprinting, weighting, inspection." Ohio

"Classes in geography, general science, and geology will find much valuable material in this film." Indiana
el-jh Guide

Silver. 15min 16-si-\$24 1930 Eastman 669.2

"Stresses important uses of the metal which today plays a leading part in many industrial activities. Shows the preparation of sterling silver and, using the manufacture of a sterling silver spoon and a tray as an illustration, shows the processes involved in the production of flat-ware and hollow-ware. The process of using silver plating for mirrors and photographic emulsions are shown. The film has been divided into the following units: sterling silver, silverware and mirrors, silver in photography." Iowa univ.
jh-sh Guide

669.3 Copper

From mine to consumer. 30min 16-si-loan 35-si-nf-loan prior 1927 Am. brass 669.3

Produced by Pathescope company of America

Part one shows how the copper-bearing rock is mined, and transported to the smelters. Here the ore is crushed, and most of the waste material eliminated. It then passes successively through roasters, reverberatory furnaces and converters, and the resulting "blister copper" is cast into plates, known as anodes, for electrolytic refining. In part two we learn how copper and brass sheets and strips are made. We observe copper cakes being rolled under heavy pressure, and the annealing necessary to insure the correct temper in the metal. Lastly the finishing, trimming and inspection of the sheet metal is shown

Also available in a 5 reel film (35-si-nf-loan Am. brass). Reel 1, Copper mining and smelting; Reel 2, Electrolytic copper refining and brass casting; Reel 3, Manufacturing sheets, rolls and strips; Seamless tubes; Reel 4, How copper rods and wire are made; Reel 5, Possibilities of copper and brass

Long drawn out. 1R 16-si-apply 35-si-nf-loan Western electric 669.3

"Little billets of copper are drawn and drawn until they make many miles of wire finer than the human hair. The wire of copper eventually becomes a voice highway as you face the interesting process in the wire mills." Texas

Manufacture of Anaconda sheet copper. 30min 16-si-loan 35-si-nf-loan prior 1927 Am. brass 669.3

"This film shows the story of copper from mine to consumer; scenes in mine; crushing, screening; smelting; forming of copper; making of copper into anodes and refining by electrolysis; rolling; casting into bars." Illinois
el-jh-sh-c

Mining and smelting of copper. 15min 16-si-\$24 1930 Eastman 669.3

"Open pit mine, panorama of Bingham mine, hydraulic plant, map locating copper areas, Bear River hydroelectric plant, concentrators, train of ore. Grinding ore, washing powder ore, gravity canal, oil flotation cells, filters. Mixing flux and concentrates, heating ore, reverberatory furnace, separating copper, silver and gold, casting ingots." Ohio
el-jh Guide

Story of copper milling. 15min 16-si-loan 35-si-nf-loan prior 1927 Bur. of mines 669.3

Made in cooperation with the Copper & brass research association

"This film of the story of copper milling shows views of mills and smelters in Nevada, Arizona, and Utah, rotary car dumper, crushing of ore and separating tables, leaching of oxidized ores, precipitation, stripping sheets of precipitated copper from lead cathodes, dredging of old tailings of concentration mills from bottom of lake, and retreating by ammonia leaching. [Useful in] geography, physiography, chemistry and commercial geography [classes]" Am. museum of nat. hist.
sh-trade

Story of copper mining. 75min 16-si-loan
35-si-nf-loan prior 1927 Bur. of mines
669.3

Made in cooperation with the Copper & brass research association. Shows prospecting and staking out of claims; open-pit mining in Nevada and Arizona, shrinkage stoping at Kennecott, Alaska; glacier mining, use of drag line, views of Copper river and its valley and of Miles glacier, caving system of mining in Arizona; mining of native ore in Michigan, and covers horizontal cut-and-fill method in Arizona as well as use of wet drilling in Montana; rill stoping, shaft station, use of pumps, drills, etc. Concludes with scenes pertaining to health, sanitation and social welfare
sh-trade

Story of copper refining. 15min 16-si-loan
35-si-nf-loan prior 1927 Bur. of mines
669.3

Made in cooperation with the Copper & brass research association
"An instructive film showing the unloading of blister copper from a boat and cars at Baltimore, Md. refinery, charging into refining furnace with copper scrap, raking slags off surfaces, tapping of the furnace, casting into anodes, and cooling. Other scenes include further refining of anodes by electrolysis, placing anodes into empty tanks, and insertion of sheets of copper between them to act as cathodes. [Useful in] geography, physiography, chemistry, and commercial geography [classes]" Am. museum of nat. hist.
sh-trade

Story of copper smelting. 15min 16-si-loan
35-si-nf-loan prior 1927 Bur. of mines
669.3

Made in cooperation with the Copper & brass association
"An interesting picture showing general views of smelters in Nevada, Utah, Arizona, and Montana, unloading of coarse ore in blast furnaces and pure ore and concentrates in reverberatory furnaces, charging converters, pouring slag, pouring blister copper, casting anodes, and cooling and shipping of castings. [Useful in] geography, physiography, chemistry, and commercial geography [classes]" Am. museum of nat. hist.
sh-trade

Story of the fabrication of copper. 15min
16-si-loan 30 min 35-si-nf-loan prior
1927 Bur. of mines
669.3

Made in cooperation with Revere copper & brass, inc.
"Reel 1 shows loading of copper cakes onto platform in front of ram which pushes them into and through heating furnace to get them red hot, takes them from furnace, and places them on breaking-down rolls where they are reduced to slabs about one fourth inch thick; shearing into definite sizes and lengths; hot rolling into thin sheets; annealing, pickling, washing, and drying; cold rolling for proper hardness; polishing and bundling; smoothing and leveling of sheets; trimming to proper size; and buffing. Reel 2 shows rolling of copper rods and drawing wire, heating of 250-pound bars, conveying to first rolls, and "catcher" grabbing rods as they emerge from one roll at speed of more than 1,000 feet per minute and looping them to next pass; method of cooling, coiling, and drawing through series of dies for desired gage; making of trolley wire; winding wire onto drums; twisting into cables by entering machine as separate strands and coming out on other side as heavy wire." Producer
sh-c

669.4 Lead

Lead. 15min 16-si-\$24 1930 Eastman 669.4

"The way in which the ore is mined and smelted—some of the multiple uses of the metal in industry—and the process of making white lead, by the famous Dutch Boy method, are shown." Producer
el-jh Guide

Story of lead mining and milling. 45min
16-si-loan 35-si-nf-loan prior 1927
Bur. of mines
669.4

Made in cooperation with the St Joseph lead company
"Reel 1.—Pictures relative production of lead by countries and states; prospecting, driving of tunnels, mining and loading of ore. Reel 2.—Shows hauling of mine cars to shaft by electric locomotive; emptying car by rotary dumps; hoisting ore to mill; crushing ore; and concentration on tables. Reel 3.—Depicts concentrating tables; de-watering and stacking of tailings; re-grinding of middlings; filtering and drying; and community scenes." Illinois
sh-trade

Story of lead smelting. 30min 16-si-loan
35-si-nf-loan prior 1927 Bur. of mines
669.4

Made in cooperation with the St Joseph lead company
"Reel 1: smelter at Herculaneum, Mo.; mixing of concentrates and fluxes; sintering (roasting); charging of blast furnace; and haulage of crude lead to refinery. Reel 2: smelter of Federal Lead Co., at Alton, Ill.; roasting of concentrates in pots to drive off sulphur; removal of impurities from crude lead; running refined lead into molds; and transportation by electric buggies to storage piles or railroad cars. Views of change houses and baths provided by company to conserve health of workers." Texas

669.6 Tin

Tin. 15min 16-si-\$24 1930 Eastman 669.6

"The film traces the flow of tin from great mines in the Federated Malay States to large factories in the United States, and may be used as a striking example of the interdependence of mankind. Mining tin ore. Animations and scenes picture the making of tin plate. Various uses of tin." Indiana
el-jh-sh-c Guide

669.7 Other metals

Story of monel metal. 30min 16-si-loan
35-si-nf-loan Rothaker 669.7

Produced for the International nickel company, inc. This is sometimes titled simply Monel metal

Also available in a 1R version (9min 35-sd-f-nf-loan 1932)

"Composition of monel metal; its nature and manufacture. Largest non-ferrous electric furnace in the world. Uses of the metal." California

Story of nickel. 30min 16-si-loan 35-si-nf-loan 1935 Bur. of mines 669.7

Produced by Douglas D. Rothacker and is sometimes titled simply Nickel

"Reel 1 depicts the mining of the ore and the various processes involved in securing the nickel from it. The flotation process

Story of nickel—Continued

is depicted. Reel 2 shows the importance of nickel to alloys and the many uses of nickel in the home and in the industrial world." Illinois

670 MANUFACTURES

Conductor. 1R 16-si-loan 35-si-f-nf-loan
General electric 670

Transformation of raw copper from the Rocky Mountains, cotton from the South, rubber from Brazil, and silk from Japan into lamp cord

sh-trade

671W Welding

Electric needle. 1R 16-si-loan 35-si-f-nf-loan
General electric 671W

"Illustrates electric arc welding and the installation of a pipe line made of half-inch boiler plate. Lines such as these are used to convey oil, gas, and steam, and also water in large municipal systems." Kansas

Hottest flame in the world. 4R 16-sd-loan
35-sd-f-nf-loan General electric 671W

"Dr. Irving Langmuir recounts work with vacuum tubes and hydrogen which led to development of atomic-hydrogen welding process. Molecular hydrogen, introduced into an electric arc becomes broken up into hydrogen atoms. When this atomic hydrogen passes beyond the action of the arc, the atoms reunite with violence and liberate great amounts of heat, thus producing the hottest known flame." California

674 Lumber. Forest products

Cedar camps in cloudland. 1R 16-si-apply
35-si-f-nf-loan Western electric 674

"Scenic survey of the Pole-making industry amid the mountains of the north Pacific coast." Producer
el-jh

Conquest of the forest. 1R 16-si-loan 35-si-f-nf-loan General electric 674

Scenes in the logging country of the Northwest. Gives a comprehensive picture of the lumber industry, its magnitude, and modern methods of operation
"Useful in] geography and commercial geography [classes]" Am. museum of nat. hist.
el-jh-sh

Conquest of the forest. (Seeing Canada ser.) 10min 16-si-\$9.75 35-si-nf-apply
Canadian gov't. 674

"Logging operations in the vast timber tracts of northern Ontario and Quebec. [Useful in] geography, commercial geography, nature study and biology [classes]" Am. museum of nat. hist.
el-jh-sh

Drive is on! (Seeing Canada ser.) 10min
16-si-\$9.03 35-si-nf-apply Canadian gov't. 674

"Spring log-drive on Canadian rivers. The devilry of roaring swollen rivers, huge jams, hairbreadth escapes from icy duckings—the log-drive is a thrilling adventure." Utah
jh

Far western cedar trails. 1R 16-si-apply
35-si-f-nf-loan Western electric 674

"An interesting chapter of the cedar telephone pole industry; processes; etc." Iowa state college
jh-sh-c

Felling forest giants. 15min 16-si-\$24 35-si-nf-\$60 1929? Films of commerce 674

Produced by Pathe

"Gives a detailed story of the lumber industry in the mountains of North Carolina and in the great forests of the Northwest. Logs are taken from the forests to the mill by mule and oxen teams by skidway and by floating them down stream. Scenes in temporary and permanent lumber mills complete this . . . subject." Distributor

Land of the white cedar. 1R 16-si-apply
35-si-f-nf-loan Western electric 674

Selecting cedars for telephone poles and life among the cedar-cutters of the Canadian border of Minnesota
jh-sh

Lumbering in British Columbia. (Seeing Canada ser.) 6min 16-si-\$9.15 35-si-nf-apply Canadian gov't. 674

"In this educational film, replete with scenic beauties, are shown in graphic manner the lumbering operations, from the felling of the giant trees to the export shipping of the finished product. [Useful in] geography and commercial geography [classes]" Am. museum of nat. hist.
el-jh-sh

Lumbering in the Pacific Northwest. 15min
16-si-\$24 1930 Eastman 674

"Laying a railroad—dragging logs to it by steel cables—sawing the logs into lumber—drying in tunnel kilns—planing and subsequent sorting and shipping are all included." Producer
el-jh-sh-c Guide

Pillars of the sky. 1R 16-si-apply 35-si-f-nf-loan Western electric 674

"Gathering and milling the raw product for crossarms and conduits." Producer

Wood wisdom. 1R 16-si-loan 35-si-nf-loan
1925 U.S. agric. 674

A Forest service film

"The structure of various kinds of wood. Different qualities of hardwood and softwood; cell building in growing trees; development of decay through growth of fungi in the pores of the wood." Utah

675 Leather. Shoemaking

Leather. 15min 16-si-\$24 1929 Eastman 675

Gives sources of various leathers. Shows tanning methods and contrasts making shoes by hand with their manufacture by modern machinery
el-jh Guide

Romance of shoemaking. 2R 16-si-loan 35-si-nf-loan Melville 675

"The preparation of leather, and its utilization in the manufacture of shoes." Kansas

Story of leather. 31min 16-si-loan 35-si-nf-loan 1929? Tanners' council 675

"The opening scene begins with a dusty, spirited plains round-up of cattle. In the following sequences the hides of these animals are traced through leather making processes into shoes, bags, clothing, upholstery and other products. There are shown the methods and places where hides are taken off, how tanners get them, how they are cured and preserved in the long tanning process. Modern industrial technique is shown and contrasted with stages of manufacture where skilled handicraft is indispensable. World maps with animated titles and diagrams indicate the interrelation of productive factors in the modern world by showing the sources of all the raw materials used in tanning. Finally, the various methods used to manufacture leather for specific purposes are shown." Producer

el

676 Paper

From tree to newspaper. 15min 16-si-\$24 1928 Eastman 676

"Includes the steps involved in felling a tree, getting out logs, floating them to market, making wood pulp, and making paper ready for printing in a newspaper plant." Producer

el-jh-sh-c

Paper-making. (Ford educational library ser.) 1R 16-si-\$15 35-si-nf-\$40 1923 Ford 676

A comprehensive study of paper making, showing the various processes in the making from wood-pulp and from rags

jh-sh

World of paper. 2R 16-si-loan 35-si-f-nf-loan General electric 676

"Embraces in a brief pictorial history the arts of writing, printing and paper making. It shows primitive races cutting records on stone, Egyptians preparing papyrus, and Chinese making the first paper ever used by man. Then we are shown a large modern paper mill with its elaborate machinery and immense production. [Useful in] history, general science, geography and commercial geography [classes]" Am. museum of nat. hist. el-jh-sh

677 Textiles. Weaving

Art of spinning and weaving. 30min 16-si-\$50 35-si-nf-\$150 1930 Harvard 677

Taken in the unsurpassed Colonial rooms of the Metropolitan museum and under the expert supervision of the museum curators

"Operating flax and wool spinning wheels, clock reel, and niddy-noddy for making skeins. Weaving processes on simple tape loom and on common hand loom. Arranging warp, setting up loom, preparing weft on bobbins." California

jh-sh-c

677.1 Linen

From flax to linen. 15min 16-si-\$24 1930 Eastman 677.1

"History of linen is traced from the planting of flaxseed to the finished product. This film is especially fitted for use

in geography, social science, and home economics. Flaxseed to line flax. Spinning line flax. Weaving linen cloth. Finishing linen." Indiana el-jh-sh-c Guide

677.2 Cotton

Civilization's' fabric. 25min 16-si-loan 35-si-nf-loan 1926? Fruit of the loom 677.2

"Shows the manufacture of cotton fabric. Shows modern methods of ginning, carding, drawing, spinning, spooling, warping, and weaving." Indiana

el-jh

Conquering the desert. 30min 16-si-loan 35-si-nf-loan Goodyear 677.2

"The transformation of a trackless waste in the Salt River Valley of Arizona into an expansive cotton plantation. . . . Changing a sun-scorched wilderness of cactus and sagebrush to a blooming white harvest. The World War was interfering with the supply and shipment of the long staple Egyptian cotton, needed for quality tires, so the Goodyear Company in 1916 cleared a great plantation at Litchfield, Arizona, and presently was producing cotton in America that rivaled that from the Valley of the Nile. As most of the land lay just outside the Roosevelt Dam area, installation of an elaborate irrigation system was necessary. Eighty deep wells supply the water. The picture shows the planting of the seeds, the gathering of the crop, the movement of the cotton to the nearby gins and then to the textile mills, where it is made into tire fabric. The transformation from a few scattered tents to busy towns, with stores, schools, churches, model homes and well-kept gardens and lawns, is depicted in this . . . film." Producer

sh

Cotton buds and cotton balls. ¼R 16-si-\$7.50 Bell & Howell 677.2

Produced by Arthur C. Pillsbury, using time-lapse photography

Cotton, from seed to cloth. 30min 16-si-\$48 35-si-nf-\$120 Films of commerce 677.2

Kodachrome color process

"This film shows the cotton producing regions of the world, the growing of cotton in the Southern states, ginning, transportation to New England, manufacture into cloth and blankets, with animations showing for the first time the details of spinning and weaving, cotton textiles and blankets in color photography, cotton Indian head, broadcloth, and prints used in dresses, in natural color. [Useful in] geography [classes]" Am. museum of nat. hist. el-jh Guide

Cotton goods. 15min 16-si-\$24 1930 Eastman 677.2

"Covers the picking, ginning, baling, and sale of cotton—the carding, twisting, and drawing of yarn—the production of thread—the weaving and testing of cotton fabrics—and some of the multiple uses of cotton in everyday life." Producer

el-jh-sh-c Guide

Cotton growing. 15min 16-si-\$24 1928 Eastman 677.2

"Picking cotton, 'bedding up,' Boll weevil. The cotton blossom, young boll, mature boll, boll fully opened. Cotton gin in action, cotton press. An expert grading cotton. Loading steamer with bales of cotton." Ohio

el-jh-sh-c Guide

Land of cotton. 1R 16-si-loan 35-si-f-nf-loan General electric 677.2

"Illustrates the cotton industry from the planting of the seed to the finished fabric. . . The story of cotton, beginning on the largest cotton plantation, the largest cotton terminal and one of the largest textile mills in the world, presented in an instructive and fascinating manner. [Useful in] geography, domestic science, nature study, history and commercial geography [classes]." Am. museum of nat. hist.

Within the gates. 30min 16-si-loan 35-si-nf-loan Women's bureau 677.2

Produced by Roland Rogers picture service, Inc.

"Begins with the picking of cotton, follows it through the fascinating processes in the mills by which the raw cotton is turned into thread, then into cloth; goes to the factory where the cloth is turned into a shirt; pictures the steps by which the garment is shipped to the store, where it is sold to the customer." Producer

"An interesting film for use in sociology classes or with groups which are interested in the workings of industry." Utah

"Effective for the study of vocations, cotton and textiles, economics and sociology, and health and welfare problems." Indiana

677.3 Wool**Golden fleece. 1R 35-si-nf-loan 1923 U.S. agric. 677.3**

A Bureau of agricultural economics film

"Jason, a progressive farmer, learns that clean handling of wool, grading, and co-operative selling will bring success in his search for 'the golden fleece.' For wool growers particularly, but of general rural interest." Indiana

Woolen goods. 15min 16-si-\$24 1930 Eastman 677.3

"Sources of wool, llama wool, goats, sheep. Homespun woollens, sheep shearing, carding, spinning, knitting, old style weaving. Woolen factory, shearing shed, large flock of sheep, dyeing wool, mixing wool, carding machine, making clothes, testing fabric, shrinking cloth, cutting, basting linings and stiffening, finishing garment, pressing." Ohio

"Geography teachers will find good use for this film in studying wool. History and social science classes will discover illuminating contrasts between domestic and factory methods of production. Home economics classes will gain an adequate understanding of textile manufacture." Wisconsin

el-jh-sh-c Guide

Woolen yarn. 1R 16-si-loan 35-si-f-nf-loan General electric 677.3

The wool industry, from shearing the sheep to manufacturing the cloth, including views of the various methods and machines now used in carding, spinning, and weaving and giving a brief review of the history of the industry

"[Useful in] geography, commercial geography and domestic science [classes]." Am. museum of nat. hist.

el-jh-sh

677.4 Silk. Rayon**From cocoon to kimona. ¼R 16-si-\$5 Burton Holmes 677.4**

"We see the tiny silkworms from the time they are hatched until they are sorted and the cocoons unraveled to become the raw silk of commerce." Colorado Jh

Romance of rayon. 18min 16-si-loan 35-si-nf-loan Viscose 677.4

Produced by Pathescope company of America

"Shows the manufacture of rayon in a way that will interest every pupil and impress facts on the memory in an emphatic manner. The boys and girls can figuratively tramp through the heart of the spruce woods for trees, watch them felled and floated down to the mills to be processed, gather fluffy cotton to be added, and guide the immense machines that spin the threads and weave them into shimmering cloth for use in every kind of wearing apparel." Washington

"[Useful in] geography, domestic science, commercial geography and general science [classes]." Am. museum of nat. hist. el-jh-sh

Romantic story of silk. 18min 16-si-loan 35-si-nf-loan Belding Hemingway Corticelli 677.4

"Covers the complete story of silk, from the culture of the silkworms and the weaving of the raw silk in Japan, to the manufacture of the finished thread and fabrics in this country." Producer

"[Useful in] biology, nature study, domestic science, geography and commercial geography [classes]." Am. museum of nat. hist. el-jh-sh

Silk. 15min 16-si-\$24 1929 Eastman 677.4

"Gathering mulberry leaves, feeding silkworm, cocoons, sorting cocoons, heating ovens, steaming cocoons, unreeling silk, Japanese silk factory, shipping silk, 'the silk express,' train moving at high speed, unloading silk. Weaving, opening silk bales, treating raw silk, preparing the warp, wool thread, winding quills, looms in operation, printing designs, finishing." Ohio

el-jh-sh-c Guide

677.6 Special fabrics**Tapestries and how they are made. 15min 16-si-\$30 35-si-nf-\$60 1933 Metropolitan museum 677.6**

"The technique of tapestry weaving from the dyeing of the woolen yarn to the finished piece is . . . pictured in this . . . film. . . Some noteworthy tapestries from the Museum's collection are shown." Producer Jh-sh

678 Rubber**Conquering the jungle. 15min 16-si-loan 35-si-nf-loan prior 1927 Goodyear 678**

"Shows how rubber is produced in Sumatra; also interesting views of life and customs of the natives." Missouri

Romance of rubber. 2R 16-si-loan 1926 U.S. rubber 678

"Excellent film giving in detail the work on a rubber plantation in Sumatra. The care of the trees, the tapping by coolies,

Romance of rubber—Continued

and transportation of the crude rubber to the United States where it is made into various articles. The care of the laborers and their homes are also shown and some of the animal life of the country east of Suez. [Useful in] geography, commercial geography, general science, domestic science and nature study [classes]. Am. museum of nat. hist. el-jh-sh

Rubber. 15min 16-si-\$24 1929 Eastman 678

From the plantation in Sumatra where rubber trees are scarred and crude rubber processes shown, to the United States where rubber is converted into tires, tennis shoes and fountain pens

el-jh-sh-c Guide

Rubbing in Selangor. ¾R 16-si-\$15 Burton Holmes 678

"An extremely interesting and educational reel depicting the rubber industry of the Federated Malay States. Gathering and treating the rubber latex. Tamil laborers at work and at play." Indiana

Story of the tire. 30min 16-si-loan 35-nf-loan 1929 Goodyear 678

"This picture presents an interesting study in the manufacture of automobile tires—from the rubber and cotton plantations down through the various operations to the wrapping for shipment to the dealer." Utah

sh-trade

679 Other industries

From wheat to bread. 15min 16-si-\$24 1928 Eastman 679

"Pictures primitive methods of making bread—a pioneer grist mill—a modern flour mill—a bakery, showing bread mixing, kneading, steaming, rising, baking." Producer el-jh-sh Guide

680 MECHANIC TRADES**681 Clocks**

Time. 15min 16-si-loan 1934 Castle 681

Sponsored by the Elgin watch co.

"The whole story of man's attempt to keep record of time, from the prehistoric man's attempt to measure time by use of a rope of straw with knots tied in it at equal distance and measuring by the time of burning of one knot to another, through the candle era, the crude clocks down to the modern refined watches." Colorado

el-jh Guide

681.4 Lenses. See 535.8

683 Firearms

Firearms of our forefathers. 14min 16-si-\$30 35-si-nf-\$60 1922 Metropolitan museum 683

"With introductory sections showing bow and crossbow, this film pictures the main steps in the development of firearms from the simple hand cannon to the modern machine gun. The actual manual of arms of a musketeer is demonstrated in costume.

'Close-up' views show clearly the action of the early gunlocks, also the magnificent enrichment of the rare weapons to which they belong." Producer jh-sh-c

684 Cabinet making

Furniture making. 15min 16-si-\$24 1929 Eastman 684

"Design, Tudor Elizabethan period, Louis XIV period, Early American period, Georgian period, a drafting room, furniture models, hand carving. Machine production, multiple carving machine, the spindle carver, the jig sander, the belt sander, the automatic lathe, automatic-tuning sander, air router, making dove-tail joints, vertical-spindle borer, the jig saw, band saw, straight-line ripper, gluing joints, straito-plane, veneering. Finished product, assembling a table, painting by compressed air, pumicing, upholstering, arrangement of furniture in dining room, arrangement in living room." Ohio

el-jh-sh-c Guide

685 Shoemaking. See 675

687 Clothing industries. Sewing machines

Men's clothing industry. 30min 16-si-loan 1935 Films of commerce 687

Made in cooperation with Howard Clothes, Inc. A vocational film showing the work of the designer, marker, shrinker, laboratory assistant, foreman, bushelman, salesman, etc. of the clothing industry. Shows also the necessary training for this work as given in the Central needle trades high school Guide

Modern industrial methods. 60min 16-si-loan 35-si-nf-loan 1931 Singer 687

Produced by Paramount business pictures, Inc.

Pt 1 Lumbering; Pt 2 Cabinet making; Pt 3 Mass production of interchangeable metal parts; Pt 4 Machine assembly and testing. Shows the manufacture of sewing machines from the sources of the raw materials to the finished product, arranged so that each reel may be shown separately or in connection with any other

"Suitable for classes in sewing, manual training, chemistry, physics, geography, economics, vocational training, engineering, English, etc., and will be of interest and value to pupils of all ages, from elementary grades to colleges." Producer

690 BUILDING

Builders. 20min 16-sd-\$85 35-sd-nf-\$190 1931 Erpi 690

The construction of a skyscraper, showing the work of draftsmen, wreckers, excavators, steel workers and the laying of concrete floors, bricklaying and marble work. Plumbers at their job, terra cotta and tile setters, plasterers, roofers, painters and the men who install elevators are also shown jh-sh Guide

Home is what you make it. 3R 16-si-loan 35-si-nf-loan 1929 U.S., agric. 690

A Bureau of agricultural engineering, Bureau of chemistry and soils and Extension service film

Home is what you make it—*Continued*

"Deals with exterior painting and repairs, adjustments on the interior and landscaping." Weaver

The story connected with it has been criticized as sentimental. Otherwise the film contains useful suggestions

691.5 Cement

From mountain to cement sack. 15min
16-si-loan 35-si-nf-loan prior 1927 Bur.
of mines 691.5

Made in cooperation with the Universal atlas cement company

Most important of 80 processes involved in cement manufacture are explained to a boy by a manikin who steps from an encyclopedia. Parallel is drawn between bread baking and cement making. Covers entire process ending with filling and tying of sacks

"[Useful in] geography and commercial geography [classes]" Am. museum of nat. hist. sh

693.5 Concrete

Construction that endures. 15min 16-si-loan 35-si-nf-loan 1931 Bur. of mines 693.5

Made in cooperation with the Universal atlas cement company

"Begins with boy at desk writing theme on concrete. Manikin appears and demonstrates various ways in which concrete is employed in construction, including Panama Canal, bridges, highways, railroad beds, farm buildings, irrigation pipe, walls, tennis courts, swimming pools, a sport stadium, public buildings, airports, fountains, residences, and statuary. Animated graphs show proportions of cement, stone, sand, and water that will give best results; effect of too much water in mix on strength of concrete; and rapid increase in mileage of concrete pavement." Producer

"[Useful in] geography and general science [classes]" Am. museum of nat. hist. el-jh-sh

697 Heating

Electric heat in industry. 3R 16-si-loan 35-si-f-nf-loan General electric 697

"Shows the value of electric heat in the making of high-quality products, and the economies in production it effects. This is illustrated by views of its application to the manufacture of glass, steel, shoes, automobile parts, and many other products." Producer jh-sh-c

Hot air heating. 15min 16-si-\$24 1927 Eastman 697

"A hunting lodge, the fireplace, hunters warmed by open fire, radiation, conduction, convection currents all shown by action of hunters at fireplace. The stove, school children warming at stove, their actions demonstrate radiation, etc., use of stove jacket. The furnace, animations explain action of furnace, the thermostat, moisture control." Ohio

el-jh-sh-c Guide

700 FINE ARTS

707 Art—Study and teaching

Artist. (Vocational guidance ser.) 12min
16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 707

A vocational film by Fred C. Smith, formerly editor, Magazine of vocational guidance, Harvard university

"Portrayal of the artist in his daily work, his associates, and the amount and kind of preparation necessary to enter and advance in his profession." Colorado jh-sh Guide

708 Art galleries and museums

Behind the scenes in the Metropolitan museum. 25min 16-si-\$60 35-si-f-nf-\$120 Metropolitan museum 708

"Few visitors familiar with the galleries of a museum realize the amount and scope of work involved before an exhibit is seen by the public. This film shows the many workshops maintained by the Museum, the registration and photographing of works of art, the manner in which they are cared for, and their installation in a gallery." Producer el-jh-sh-c

709 Art—History

Hidden talisman. 15min 16-si-\$30 35-si-nf-\$60 Metropolitan museum 709

"The scenes are laid in The Cloisters, the mediaeval museum on Fort Washington Heights, New York City, a branch of The Metropolitan Museum of Art. After being shown views of the buildings and grounds, one sees the ghost of a fifteenth-century French lady searching for a talisman which she has hidden in a bit of carving, the finding of which is essential to her happiness. The actors are Dorothy Sands, Florence House, and Donald Hartman." Producer

Withdrawn.

jh

710 LANDSCAPE GARDENING

711 City planning

Growth of cities and their problems. 12min
16-si-apply 35-si-nf-apply 1920 Soc. for visual educ. 711

"Intended to make pupils realize some of the common problems attending the growth of communities from small towns or villages to thriving cities. Problems as well as solutions are visually suggested. Questions relating to transportation, public safety, sanitation, education, law and order, recreation, and similar matters of civic interest, are studied. . . . Furnishes a . . . basis for . . . discussion and instruction in practical Civics." Producer

Guide

715 Tree planting

For botany of trees see class 582

Planting and care of trees. 15min 16-si-\$24 1928 Eastman 715

A class is instructed by film and charts in the life cycles of the apple-tree tent caterpillar, the codling-moth, and the

Planting and care of trees—Continued

white-marked tussock moth and in the spraying of trees to control these pests. They leave the school to hunt insects and discover eggs, cocoons, and larvae of the tussock moth, a colony of tent caterpillars and a shade tree ruined by borers. In the second unit a grafted tree is planted and the following spring examined. The film ends with the reunion of teacher and pupils 37 years after the planting of a school grove and the growth of the trees is noted

el-jh-sh Guide

716 Gardening. See 635**720 ARCHITECTURE****721.9 Wrought iron**

Making of wrought iron. 9min 16-si-\$30
35-si-nf-\$60 Metropolitan museum

721.9

Samuel Yellin making a section of a grille. The cutting, the shaping, and the binding together of the various parts

725 Commercial buildings

Empires of steel. 3R 35-si-nf-loan 1931?
U.S. steel 725

"Shows the rolling, fabrication, and erection of steel for a modern skyscraper—the Empire State Building, New York City." Producer

el-jh

Fabrication and erection of the Bank of Manhattan building. 30min 16-si-loan
40min 35-si-nf-loan Am. inst. of steel construction 725

Details of steel construction as shown in the erection of this New York city building

727 School buildings and grounds

School beautiful. (Citizenship ser.) 12min
16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 727

By C. A. Stebbins, formerly with the United States Bureau of education

"How a civics class planned to beautify the school grounds and how the plans were carried to completion." Indiana

el-jh Guide

728 Residences

Houses of the Arctic and the Tropics. (Harvard Pathe ser.) 30min 16-si-\$48
35-si-nf-\$120 Films of commerce 728

"First reel shows how the Esquimos of the Arctic live, the building of an Igloo, from the beginning to the placing of the ice slab window, the transferring of family belongings to the new abode, Esquimos having evening meal, family going to bed. Second reel shows life among the Fiji Islanders, building their thatched huts, etc. Pictures are almost ideal in combining the informative and interesting." Minnesota

See also "Boats and fishermen of the Arctic and the Tropics," class 639

730 SCULPTURE

Sculpture in stone. 15min 16-si-\$25 35-si-nf-\$75 1929 Harvard 730

Creation in York marble of a crouching jaguar, the work of Anna Hyatt Huntington. The whole process is shown, from the crude block of marble, to the final creative effort of the artist. Details of the technique are shown throughout the progress of the work, and there are frequent close-ups of the tools in actual use. From the block of marble emerges a beast of the jungle, vibrant with life

737 Numismatics. Medals

For minting of coins, see 332.4

Medal maker. 45min 16-si-\$75 35-si-nf-\$225
1930 Harvard 737

Made especially for the American numismatic society

"The making of medals and coins . . . is demonstrated by Laura Gardin Fraser . . . best known for her official Government medals of Lindbergh and Byrd, and for her work for the National Sculpture Society. Several sketches precede the final drawings, one for the face and one for the reverse, exactly the size the finished medal is to be. On smooth plaques of modeling clay, three times as large as the finished medal, Mrs. Fraser then sketches in the outlines of her design. Working directly from the living model, deftly she builds up the relief with tiny rolls and balls of clay. With delicate touches of the finger-tips, and with infinitesimal additions and subtractions, the artist little by little improves the rough figure. The film shows in detail all the interesting steps of transforming these clay plaques into plaster moulds, casts, bronze moulds, and then finally steel dies reduce to one-third the size of the plaques. The steel dies in turn, placed in an enormous stamping machine, stamp out the finished medal." Producer

jh-sh-c

738 Pottery

Potter's wheel. 1R 16-si-loan 35-si-f-nf-loan General electric 738

Manufacture of porcelain insulating parts for electric apparatus, including the mixing of ingredients, molding, turning, glazing, and firing in huge kilns

"Useful in, general science and shop work [classes]" Am. museum of nat. hist. sh

Pottery maker. 14min 16-si-\$30 35-si-nf-\$60 prior 1927 Metropolitan museum 738

"Introduces us to the workroom of a potter in the 1860's. A lady, accompanied by her granddaughter, enters. The little girl accidentally crushes the vase on which the potter is working. To comfort her he 'throws' another. As the spinning clay takes form the spectator sees repeated the age-old process of the making of pottery." Producer

jh-sh

Tableware. 15min 16-si-\$24 1929 Eastman 738

"Modern methods of manufacture, as compared with old, show perfection in preparing clays for pottery. Modeling, casting, firing, decorating tableware." Producer

Guide

739 Bronzes. Silverware

For metallurgy of silver, see class 669.2

From clay to bronze. 45min 16-si-\$75 35-si-nf-\$225 1929 Harvard 739

The artist's work, as it progresses from the preliminary sketch in clay to the ultimate achievement in bronze, is shown by detailed demonstration. The first reel shows Miss Katherine W. Lane, at work in her studio. She erects a wire armature or framework, builds around it the clay image of her pet greyhound, and then works over this clay model until it is finished, ready for casting. In the second reel is shown the making of a plaster mould by Leo Toschi, from which is made a plaster cast of the subject. The third reel demonstrates the making of a bronze cast by the sand mould method

jh-sh-c

Making of a bronze statue. 29min 16-si-\$60 35-si-nf-\$120 1928 Metropolitan museum 739

Produced by Allen Eaton and Merwyn W. Palmer

Here we see the many processes involved in making a bronze figure—the equestrian statue of Theodore Roosevelt by Alexander Phimister Proctor

jh-sh-c

Silver: heirlooms of tomorrow. 35min 16-si-loan 35-si-nf-loan 1930? Bur. of mines 739

Made in cooperation with the Gorham company

"Reel 1 shows aboriginal girl in tropical forest admiring her silver ornaments. Scene then changes to modern formal dinner, where silver table appointments attract attention; in consequence, host describes visit to silver factory in New England where dexterous craftsmen transform sheets of sterling into beautiful creations of silverware. He reminds guests that Paul Revere was a silversmith and shows examples of his workmanship, treasured heirlooms of today. As host speaks, scenes shift from dining table to factory processes and include views of skilled designers making sketches and models; silver going into factory as ingots, sheets, or wire; first step in reproducing artist's design—making steel dies for stamping or molds for casting; cutting and polishing dies; stamping flatware from sheet silver; annealing of silver between each step of process to keep it malleable; and successive processes by which spoons, forks, and other articles are shaped—cross rolling, pinch rolling, grading, cutting to outline, and stamping blanks. Reel 2 shows making of hollow ware, some entirely by hand; chasing—most beautiful and difficult form of hand decoration; engraving; and assembling, polishing, and inspection of completed pieces. Reel 3 shows mining of ore through shafts and in open pits; concentration, smelting, and refining of silver by electrolysis; dissolving of silver in ore with cyanide solution; precipitating and filtering silver sludge; and melting and pouring of ingots which later may be rolled into sheets or wire. Final scenes picture church wedding and reception afterward, with guests inspecting silver bridal gifts." Producer

jh-sh-c

Silversmith. 30min 16-si-\$50 35-si-nf-\$150 1930 Harvard 739

"Mr. Arthur J. Stone was asked to cooperate with the Museum of Fine Arts, in the making of this film. [We see] a

plain ribbon of silver develop into a beautifully balanced spoon. The handle is narrowed and lengthened, the bowl widened and shaped, and the surface finished smoothly. A more elaborate piece is the large bowl which also is created before the eyes of the audience. The craftsman with repeated strokes futes the large disk of silver, and gradually forms it toward the desired shape." Producer

el-jh-sh-c

740 DRAWING. DECORATION**741 Freehand drawing**

Models in motion. 14 films of 5min ea 16-si-\$6 ea 1930 Eastman 741

Made under the direction of Dr Charles H. Woodbury and Mrs Elizabeth Ward Perkins, as the result of their experience with drawing classes in the Woodbury training school in applied observation, Boston, Massachusetts

The films listed are arranged in the order of their difficulty, from elementary to advanced: Young goats playing; Goose in water; Raking coffee; Man shoveling corn; Egyptian dancer; Kitten and duck playing; Leaping a crevasse; Gypsy dancer; Spanish dancer; Baseball batter; Baseball pitcher; Rodeo; Tilden playing tennis; Shadow boxing (defensive)

"Each picture is an episode in which a model performs, repeatedly, the complete round of some characteristic action. In drawing from such a film, it is necessary to build up an image of the model as a whole through seeing the identical action repeated many times on the screen. A drawing is then made rapidly, from memory, with no erasures or corrections of any kind. After further observations and comparisons, additional drawings are made, until a satisfactory result is secured." Producer

jh-sh-c Guide

744 Mechanical drawing

Introduction to mechanical drawing. 20min 16-si-\$30 1932 Cocking 744

Mechanical drawing is here presented clearly and practically for the beginner. The necessary materials are lined up and the correct methods of procedure demonstrated. Drawings are actually made of articles requiring one, two and three views

745 Weaving. See 677**748 Stained glass**

For glass making, see class 666.1

Making of a stained-glass window. 45min 16-si-\$90 35-si-nf-\$180 1932 Metropolitan museum 748

Made in the Department of stained glass of the Washington cathedral in Huntingdon Valley, Pennsylvania

Each step is shown, from the actual making of the colored glass to the final cementing and cleaning of the finished panel

jh-sh-c

749 Artistic furniture

For cabinet making, see class 684

American wing. 45min 16-si-\$90 35-si-nf-\$180 prior 1927 Metropolitan museum 749

"The façade and the rooms of the American Wing, with close-up pictures of the outstanding object in each interior. The views are arranged chronologically and are augmented by interpretive titles that outline briefly the significance of the various periods. The exteriors of several houses contemporary with the rooms in the American Wing are introduced to supplement the Museum interiors." Producer jh-sh-c

750 PAINTING

757 Portrait painting

Painting a portrait by Wayman Adams. 40min 16-si-\$90 35-si-nf-\$180 1933 Metropolitan museum 757

Made in the studio of Wayman Adams. The painter begins with the setting of the palette, then builds up the portrait step by step jh-sh-c

760 ENGRAVING

761 Wood engraving

Last of the wood engravers. 30min 16-si-\$50 35-si-f-nf-\$150 1930 Harvard 761

To preserve and make available to posterity the extraordinary technique of Mr. Timothy Cole, last of the great wood engravers, the Boston museum of fine arts commissioned the production of this picture

The El Greco masterpiece, "Fray Feliz Hortensio." With a reproduction of the painting to guide him, Mr. Cole chooses a carefully sharpened graver and begins to cut the lines in the block of boxwood. This was the last engraving carved by Mr Cole just before he died

767 Etching

Drypoint. 30min 16-si-\$50 35-si-nf-\$150 1929 Harvard 767

Supervised by Henry P. Rossiter, Curator of prints at the Museum of fine arts, Boston

"The whole process from the original sketch to the final print. The artist who illustrates the technique of drypoint is Mr. Frederick G. Hall, of the Guild of Boston Artists, best known for his etchings of Old World houses and people. To make quite plain the means by which the various characteristic tones of drypoint are produced, he makes a small plate illustrating the specialized uses of the individual tools. Then, on a larger plate, with drypoint needle, diamond point, graver, and roulette Mr. Hall builds up the portrait, which he has transferred to the plate from the original sketch, by minute ploughing of the copper. The artist then inks the plate thoroughly and puts it through his picturesque hand press." Producer jh-sh-c

Etcher and his art. 6min 16-si-\$7.78 35-si-f-nf-apply Bray 767

"Demonstration of etching, from the sketching of the first 'cartoon' to the 'pulling' of the artist's proof from the finished copper plate. Posed by Walter Raymond Duff, etcher of the famous Harvard Campus pictures." Producer

Etcher's art. 30min 16-si-\$50 35-si-nf-\$150 1929 Harvard 767

Supervised by Henry P. Rossiter, Curator of prints at the Museum of fine arts, Boston

"At the request of the Museum of Fine Arts, the widely-known artist Frank W. Benson lent his cooperation for this production. Mr. Benson has achieved an international reputation for his etchings of wild fowl. A brief historical and explanatory resumé at the opening of the film displays etchings by various masters, past and present, reproduced from original prints in the Museum. The artist begins by transferring a pencil sketch by pressure to the coated and smoked surface of a copper plate. Then, guided by the faintly visible lines, Mr. Benson's delicate needle cuts through the coating, thus exposing the copper along the lines of the drawing. When the hundreds of lines which compose an etching are all exposed, the artist floods his plate with acid to etch them into the copper. He then cleans his plate, inks it, and pulls a proof." Producer

So few people realize the great difference between the acid process (etching) and the tool process (drypoint) that it is suggested that this film be shown together with "Drypoint," listed above

770 PHOTOGRAPHY

778 Moving pictures

Finding his voice. 14min 16-sd-apply 35-sd-f-nf-loan 1929 Western electric 778

"A cartoon type talkie showing how motion pictures of the sound on film type are made and reproduced. The animated drawings, together with the verbal explanation, give a comprehensive treatment to this subject." Texas jh-sh-c

How movies move. 8min 16-si-\$9.84 35-si-f-nf-apply Bray 778

"Animated technical drawings combined with actual photography explain the operations of the motion picture projection machine." Indiana jh-sh-c

How talkies talk. 13min 16-sd-apply 35-sd-f-apply Gaumont British 778

"The principles of sound recording and reproduction are demonstrated." Producer Guide

Museum of modern art film series. 16-si-sd-apply 35-si-sd-f-nf-apply Museum of modern art 778

The museum has collected some of the outstanding films from 1895 to date. They have made a series of programs running for one-two hours. In the 35mm width most of the films are on safety stock but a few are available on flammable stock only; also some are available in silent versions only and some in sound only. Users should therefore make very careful inquiries. The various units in Series no. 1

Museum of modern art film series—Cont.
cover the following points: Development of the narrative; Rise of the American film; D. W. Griffith; German influence; The talkies (or for those not equipped with sound apparatus, End of the silent era). In Series 2 the following are offered: Western film; Comedies; Documentary films; Mystery and violence; and Screen personalities. For a complete list of the films used to illustrate each of the above units apply to the Museum

Out where the sound begins. 14min 16-sd-apply 35-sd-f-nf-loan 1930? Western electric 778

"Showing how motion picture sound equipment is built in the great workshops where most of the world's telephones have been made for more than fifty years. Musical effects and other sound effects are synchronized with the action." Producer jh-sh trade

780 MUSIC

782 Operas

Films based on operas are classed with Photoplays, class F

784 Vocal music

Jack and Jill in Songland. 10min 16-sd-\$50 35-sd-nf-\$100 1931 Erpi 784

"After their historic tumble Jack and Jill encounter a Song Man. He explains that his work is to catch the notes of elfin bands and put them down in permanent form. After causing a staff to appear, he explains its purpose. He leaves and the children gather the notes from a new melody and place them on the staff. The Song Man returns and assists Jack and Jill in setting words to the music. As a finale, they sing the melody and the audience is invited to join." Producer el-jh-sh-c Guide

787 Stringed instruments

String choir. 10min 16-sd-\$50 35-sd-nf-\$100 1931 Erpi 787

"The picture opens with the string ensemble playing a selection from 'L'Arlésienne' by Bizet. After the characteristics of the violin are explained a violinist renders a solo. The same procedure is followed for the other instruments. The camera is focussed at various angles to show technique involved in playing these instruments. A string quartet renders a part of the Haydn 'Kaiser Quartet' and the picture closes with the scene of the Czardas from 'Hejre Kat!' by Hubay." Producer el-jh-sh-c Guide

788 Wind instruments

Brass choir. 10min 16-sd-\$50 35-sd-nf-\$100 1930 Erpi 788

"The individual instruments of the brass choir—the cornet, trumpet, French horn, trombone, tuba, and their peculiar characteristics. Solo numbers represent the best compositions that have been prepared for the individual instruments. The ensemble gives a . . . performance of the 'March' and the 'Pilgrims' Chorus' from 'Tannhauser' by Wagner." Producer el-jh-sh-c Guide

Woodwind choir. 10min 16-sd-\$50 35-sd-nf-\$100 1931 Erpi 788

"The film opens with the woodwind choir playing Corelli's 'Gavotte in F' after which an announcer introduces the choir as an entity and describes its importance in the full symphony orchestra. Opportunity is presented for detailed study of each instrument. Its qualities are demonstrated by typical solo passages. The picture closes with a composition written expressly for performance by the Woodwind Choir—'Hurdy Gurdy' by Christmann." Producer el-jh-sh-c Guide

789 Percussion instruments

Percussion group. 10min 16-sd-\$50 35-sd-nf-\$100 1930 Erpi 789

Showing the traditional snare, bass and kettle drums, and also the tambourine, cymbals, triangle, bells, and xylophone. The opening measures of music in this picture are played on the celesta. Selections from Schubert, Chopin, Beethoven and Meyerbeer are used

jh-sh-c Guide

790 AMUSEMENTS

791.3 Circus

Behind the ropes. 1R 16-si-\$75 Nat. dairy council 791.3

"Adventures of three children who go to the circus and are taken behind the scenes to see how circus people and animals live and work." Producer el

792.1 Passion play

Oberammergau and the Passion players. 1R 16-si-loan 35-si-nf-loan German tourist 792.1

"This film pictures this beautiful city which is noted for the Passion Play, and for the wonderful wood carvings. Many of the leading characters for the 1934 play are shown in the film working at their respective trades." Iowa univ.

793.3 Dancing

Japanese cabaret. ¼R 16-si-\$5 Burton Holmes 793.3

"Geisha girls entertain the patrons by playing samisens and drums and performing their ancient dances." Kansas

793.8 Magic

Magic versus science. 1R 16-sd-loan 35-sd-f-nf-loan General electric 793.8

"W. A. Gluesing of the G-E Publicity Department performs a number of feats of stage magic and contrasts them with several apparently mysterious scientific 'stunts' from the 'House of Magic.' A young woman's attempts to duplicate the sleight-of-hand of the magician furnish some amusing situations." Producer sh-trade

796 Athletics and outdoor sports

Progressive training in "ball handling" games. (Physical education ser.) 12min 16-sd-apply 35-sd-f-apply Gaumont British 796

"Shows classes of boys and girls from the ages of 4 to 14 years illustrating progressive practices and games which lead to skill in ballhandling." Producer Guide

Summer playing field activities. (Physical education ser.) 12min 16-sd-apply 35-sd-f-apply Gaumont British 796

"Illustrates summer activities taken on a playing field with boys 10 years of age." Producer

Guide

796.32 Basketball

Modern basketball fundamentals. 30min 16-si-\$48 1935 Eastman 796.32

"Made under the direction of Coach Forrest C. Allen of the University of Kansas, who is one of the outstanding authorities of the country on the subject of basketball." Iowa univ.

"Individual offense, individual defense, team offense, team defense; normal and slow motion." Iowa state college

Jh-sh

796.33 Football

Attack. (Association football ser.) 10min 16-sd-apply 35-sd-f-apply Gaumont British 796.33

"Members of the Arsenal team show the various ways in which an attack may be developed." Producer

Guide

Modern football fundamentals. 30min 16-si-\$48 1934 Eastman 796.33

"This picture was planned and directed by Coach Kipke of the University of Michigan and is devoted entirely to teaching high school boys the safe and correct method of blocking, charging, tackling, etc." Indiana

Fundamental football techniques and drills. Definite methods of handling the body to prevent injuries. Analyses of body movement in slow motion are followed by the same action at normal speed to visualize the complete performance. The application of the techniques to typical situations in scrimmage, and the introduction of scenes from actual games that show the performance of fundamentals under stress of severe competition. Also known under title "Fundamentals of football"

el-Jh-sh-c Guide

Training and practical hints. (Association football ser.) 10min 16-sd-apply 35-sd-f-apply Gaumont British 796.33

"Intended specially for schoolboys; demonstrated by a number of selected schoolboys, with Tom Whittaker of the Arsenal as trainer." Producer

Guide

796.5 Mountaineering

Amid Alpine snows. (Seeing Canada ser.) 5min 16-si-\$7.92 35-si-nf-apply Canadian gov't. 796.5

"The experiences of members of the Alpine Club of Canada on one of their annual climbs at Berg Lake and Mount Robson." Producer el-Jh-sh

Mountaineering memories. (Seeing Canada ser.) 6min 16-si-\$9.69 35-si-nf-apply Canadian gov't. 796.5

From Banff to Mt Assiniboine. Shows in detail the Canadian Rockies and close-ups of a squirrel and porcupine

"[Useful in] geography, physiography and nature study [classes]" Am. museum of nat. hist. el-Jh-sh

When guide meets guide. (Seeing Canada ser.) 5min 16-si-\$8.67 35-si-nf-apply Canadian gov't. 796.5

"Showing Nova Scotia's woodland prowess in unique effects at the annual tournament of the Guides' Association." Massachusetts Jh

796.9 Winter sports

When winter comes. (Seeing Canada ser.) 6min 16-si-\$10.29 35-si-nf-apply Canadian gov't. 796.9

"A portrayal of the winter sports and other activities at Banff, the famous Canadian mountain resort in the Rockies. [Useful in] geography and nature study [classes]" Am. museum of nat. hist. Jh

Where snowtime is joytime. (Seeing Canada ser.) 5min 16-si-\$8.55 35-si-nf-apply Canadian gov't. 796.9

"The thrills and delights of skiing which has become Canada's most popular winter sport are splendidly illustrated in this film photographed in and around Ottawa, the capital of Canada." Texas Jh

Where winter sport is king. (Seeing Canada ser.) 6min 16-si-\$9.87 35-si-nf-apply Canadian gov't. 796.9

Winter sport activities at the historic city of Quebec, showing skiing, bobsledding, snow-shoeing, tobogganing, ice skating, curling, skijoring, etc.

A recreational film also useful in "geography and nature study [classes]" Am. museum of nat. hist. Jh

797 Boating. Swimming

797.1 Boating

Motor boat ramble. (Seeing Canada ser.) 6min 16-si-\$10.23 35-si-nf-apply Canadian gov't. 797.1

"A trip in a small motor boat from Belleville to Orillia, Ontario, through the famous Trent Valley canal. The route is through one of the most prosperous and fertile sections of the Dominion, and . . . views are shown of the towns and cities en route and

Motor boat ramble—Continued

also the beautiful Kawartha lakes region . . . Shows the operation of the world's greatest hydraulic lift lock at Peterborough and also the other mammoth lift lock at Kirkfield." Producer

Nipigon trails. (Seeing Canada ser.) 8min
16-si-\$10.65 35-si-nf-apply Canadian
gov't. 797.1

"A picturesque canoe trip down the Nipigon River, showing the shooting of rapids and the wild scenery of that section of Canada." Colorado
Jh

797.2 Swimming

Crystal champions. (Grantland Rice Sport-
light) 1R 16-sd-\$30 1929 Gutlohn
797.2

Produced by Pathe

An expert turtle-catcher at work, stunt swimming under water, and swimming and diving exhibitions. Johnny Wiesmuller, Martha Norelius, Heien Meany, Newton Perry, Pete Desjardines
el-jh-sh-c

799 Game protection

Forest fires or game? 1R 16-si-sd-loan 35-
si-sd-nf-loan 1931 U.S. agric. 799

A Forest service film

"Exposition of forests as a home for game, forest streams a home for fish. Forest fires and unrestricted hunting and fishing destroy both the occupants and the home." Producer

Our wild-life resource. 2R 16-si-sd-loan
35-si-sd-nf-loan 1933 U.S. agric. 799

A Bureau of biological survey film

"Shows what is being done to preserve our birds and mammals. Many forms of wild life, ranging from quail and ducks to moose and grizzly bears are shown in their natural habitat, and factors influencing their diminution are brought out. The pathetic last living specimen of the heath hen is brought to the screen." California

Unburned woodlands. 1R 16-si-loan 35-si-
nf-loan 1931 U.S. agric. 799

Companion picture to "Forest fire or game?" class 799

"Contrasts the advantages of unburned with the disadvantages of burned woodlands. Made in the mountains of North Carolina." Nat. fire protection assn.

799.1 Fishing

Angler's idyll. (Seeing Canada ser.) 8min
16-si-\$11.43 35-si-nf-apply Canadian
gov't. 799.1

"We see the crimson spotted battlers lashing out at the lures and envision the suspense of the anglers themselves as the fish leap and thresh to win clear. As a background for this . . . action we have the natural beauty of the deep woods of northern Ontario." Producer
el-jh

Battling with muskies. 5min 16-si-\$8.73 35-
si-nf-\$49.56 Canadian gov't. 799.1

A sporting film useful with clubs and those interested in fishing as a sport

"A fishing trip in the lake district of Northern Ontario containing views of expert anglers in action against the fiercest

and largest of fresh water fish—the maskinonge." Producer

"[Useful in] geography, biology and nature study [classes]" Am. museum of nat. hist.
el-jh-sh

Channel bass fishing off Virginia. 1R 16-
si-rent for subscriptions 35-si-nf-rent
for subscriptions Field & Stream 799.1

Taken by Harold McCracken and directed by Hy Watson, former editor of Field & Stream

"Shot after shot of expert surf casters battling with that grand bronze and gold warrior of the Atlantic—the channel bass—and bringing their fish in over the bounding breakers, on to the beach. . .

Now and then we watch a shark being taken, for those who tempt the Atlantic with a fishing line never can be sure just what they are going to catch. . .

Then. . . cooking oysters over a wood fire on the beach." Producer
Jh-sh-c

Fish and bear tale. (Seeing Canada ser.)
10min 16-si-\$11.77 35-si-nf-apply Cana-
dian gov't. 799.1

"Fishing in its various forms on the Miramichi River, New Brunswick, finally ending with the capture alive of three bear cubs." Producer

"Boys and girls are much interested in this picture. [Useful in] nature study, geography and biology [classes]" Am. museum of nat. hist.
el-jh-sh

Fishin' time. (Seeing Canada ser.) 8min
16-si-\$10.59 35-si-nf-apply Canadian
gov't. 799.1

"This picture was photographed on the picturesque Nipigon River, noted for its magnificent scenic beauties. We see the Virgin Falls near Nipigon Lodge, a canoe portage through a pine forest, fishing in the rapids and catching speckled trout. [Useful in] geography and nature study [classes]" Am. museum of nat. hist.
el-jh

In quest of the bronze-back. (Seeing Cana-
da ser.) 5min 16-si-\$8.43 35-si-nf-
apply Canadian gov't. 799.1

"Experiences of a party of anglers in quest of this sportiest and most fighting species of bass at Lake Weslemkoon, Ontario." Utah
Jh

Invading muskieland. (Seeing Canada
ser.) 6min 16-si-\$10.50 35-si-nf-apply
Canadian gov't. 799.1

"The experiences of a party of famous anglers in the lake regions of northern Ontario seeking the fiercest and gamest of fresh-water fish—the maskinonge." Indiana

"Splendid scenic views, camp life, and exciting pictures of anglers in action." Utah

Literary fish story. (Seeing Canada ser.)
8min 16-si-\$11.22 35-si-nf-apply Cana-
dian gov't. 799.1

"Rex Beach, famous author, Ray Long, noted magazine editor, and Roy Howard, publisher of the Scripps-Howard newspapers—lay down their pens long enough to grasp their fishing rods and hie themselves to the Jacques Cartier River, famous trout stream in the Laurentians. In this film the camera registers their experiences in quest of the wily speckled trout of this region." Producer

Tigers of the north. (Seeing Canada ser.)
6min 16-si-\$10.29 35-si-nf-apply Canadian gov't. 799.1

"Depicts the experiences of a party of expert fishermen in the Lake Vermillion district where the maskinonge, the fiercest and gamest of fresh water fish, is known as the 'Tiger of the North.'" Massachusetts Jh

With rod and fly. (Seeing Canada ser.)
5min 16-si-\$8.25 35-si-nf-apply Canadian gov't. 799.1

"A sporting film of special interest to followers of Izaak Walton. It depicts, in a somewhat lighter vein, the experiences of a party of fishing enthusiasts on one of the many small lakes of the Upper Gatineau River district near Canada's Capital City, (Ottawa)." Producer

799.2 Hunting

Regulated deer hunting. 2R 16-si-sd-loan
35-si-sd-nf-loan U.S. agric. 799.2

A Forest service film
"Shows damage done by deer when they become too numerous, and how they are removed by trapping, artificial rearing and shipping of fawns, and by regulated hunting in the Pisgah National Forest and Game Preserve in North Carolina." California

With gun and dog. (Seeing Canada ser.)
6min 16-si-\$9.18 35-si-nf-apply Canadian gov't. 799.2

Depicts experiences of a party of sportsmen on deer-hunting expedition in Laurentian hills

910 DESCRIPTION AND TRAVEL

913 ANTIQUITIES. See 571

914 EUROPE

From London to Paris by air. 1R 16-si-apply 35-si-nf-apply Soc. for visual educ. 914

Altho an old film with the pilots in the open and old type of chairs in the plane, etc., this has value in its views of London and of the French countryside showing also an old road built by Caesar
el-jh Guide

914.1 Scotland

Bonnie Scotland. 1R 16-si-\$24 Edited pictures 914.1

An Urban production
Scenes in the Highlands and Lowlands

Wee Scotch piper. (Children of all lands ser.) 15min 16-si-\$24 35-si-nf-\$60 1928
Films of commerce 914.1

Produced by Pathe and is by Madeleine Brandeis

"The story of a little Scotch boy who cares for a lamb and in return receives a set of bagpipes. Beautiful scenery of Scotland." Iowa state college
el

914.15 Ireland

Emerald isle. 1R 16-si-apply Bell & Howell 914.15

Scenes of mountains, lakes, and valleys, along the bleak and rocky coast of southern Ireland and the life and industries of the people
Jh-sh

Ramble in Erin. 4R 16-si-loan 35-si-nf-loan Cunard 914.15

Available to adult groups only and may be secured in 1 short reel (16-si-loan 35-si-nf-loan). May also be had in any of these versions under the title "Ireland"

Shows departure of the Cunarder, "Samarina," shipboard views, and scenes of Galway, Croagh Patrick Pilgrimage, Cobh (Queenstown), Blarney Castle, Killarney, Cork, Limerick, Clare, and Dublin

"Useful in geography [classes]" Am. museum of nat. hist.
el

914.2 England

By the side of the road. (R. C. Bruce European scenic pictures ser.) 15min 16-si-\$24 35-si-nf-\$60 1929? Films of commerce 914.2

Produced by Educational films corporation of America

A trip thru the English countryside in which we see milk carts, thatched roof houses, bridges, a gypsy encampment and Ann Hathaway's home. Continuing our trip into Wales we see the attractive countryside. The film is titled with extracts from Tennyson's "The Brook"

el-jh-sh

Shakespeare. 12min 16-sd-apply 35-sd-f-apply Gaumont British 914.2

"Shows many scenes among which Shakespeare lived . . . which are reflected in his imagery." Producer
Guide

914.21 London

London. 15min 16-si-\$24 1935 Eastman 914.21

Illustrates the significance of the city's location and the network of communications connecting the world-wide British Empire. London as it lives. The routine of the business day in markets, shops, and financial districts, as well as the principal historic landmarks, parks, military routine at Whitehall, and views of the city at night
el-jh Guide

914.3 Germany

Black forest village. ¼R 16-si-\$5 Bell & Howell 914.3

"Quaint buildings with snow covered roofs, fringed with icicles; snow capped mountains, and a lake of real ice where famous skaters perform with graceful skill—under a hot summer sun!" Producer
el-jh-sh

In old Hessen. 2R 16-si-sd-loan German tourist 914.3

Against a background of ancient buildings peasants are shown in their quaint costumes

Romantic Rhine. 2R 35-si-nf-loan German tourist 914.3
The Rhine from Mainz to Koblenz, ruins of ancient castles and strongholds and sloping vineyards
Also known under title: Along the romantic Rhine

914.36 Austria

Glimpses of Vienna. ¼R 16-si-\$5 Burton Holmes 914.36

Ruins of the Palace of Justice; the Rathaus, the Burg theatre, the Parliament, Danube canal and many Tyrolean types

Picturesque Salzburg. ¼R 16-si-\$5 Burton Holmes 914.36

A beautiful city, nestled in the hills of Austria, with winding roads and impressive architecture

914.37 Czechoslovak Republic

Children of Bohemia. 17min 16-si-\$30 1930 Kodascope 914.37

Produced by Post

"Scenes in Czechoslovakia in which children are seen, walking in the streets of the city, or at work on farms in the country, driving geese, etc. New captions could with advantage be introduced which would point out the geographical features of the scenes. There are good pictures of village life and work. [Useful to illustrate geography lessons on Czechoslovakia for junior and senior students." British film inst. jh-sh

914.38 Poland

Children of Poland. 8min 16-si-\$30 Kodascope 914.38

Produced by Post

"Boys and girls of peasant homes. In fields. Spinning. Tending geese. With dairy herds. To church in colorful costumes." California

'Neath Poland's harvest skies. 1R 16-si-apply 35-si-nf-apply Soc. for visual educ. 914.38

"Not only illuminative of Polish peasant life, but possesses added beauty because of the quaint garb of the natives, hand-woven from 'rainbow wool' peculiar to the peaceful district west of Warsaw where the scenes were taken. The picture shows the life of the countryside and villages during the happy harvest season, and the preparation for the holiday festivities." Iowa state college jh Guide

914.39 Hungary

Hungary. 15min 16-si-\$24 1934 Eastman 914.39

"Pictures large estates, primitive and modern agricultural methods, animal husbandry, village life, embroidery, and a wedding festival. Shows primitive transportation—the fishing, mining, sugar-belt, and steel industries—Budapest—educational opportunities—medieval architecture." Producer ei-jh Guide

914.4 France

Apple-blossom time in Normandy. 1R 16-si-apply 35-si-nf-apply Soc. for visual educ. 914.4

Scenes of town and country life along the Seine in Northwestern France, photographed during the most alluring season. Shows the historic village of Falaise, birthplace of William the Conqueror, snuggled under the protection of its old castle; Norman country homes with flowering orchards and herds, and types of simple folk at their tasks of tilling and basket-making Guide

Great waters of Versailles. ¼R 16-si-\$5 Burton Holmes 914.4

Many views of beautiful fountains—single, in groups, high and low. Quite lovely

914.436 Paris

Cafe life in Paris. ¼R 16-si-\$5 Burton Holmes 914.436

"Glimpses of the happy side of life at the Cafe de la Paix and the Cafe du Dome." Producer

Nine glories of Paris. ¼R 16-si-\$5 Burton Holmes 914.436

"The Arch of Victory; the Tomb of the Unknown Soldier; the Champs Elysee; Avenue of the Grande Armee; the Sacred Heart of Montmartre; the Eiffel Tower; the Place de la Concorde; the Tuilleries and the Arch of the Carrousel." Missouri
The silent version of part of "Paris" listed below

Paris. 11min 16-sd-\$24 1932 Burton Holmes 914.436

Described by Ernest R. Clark

"Viewing Paris from a river boat as we glide along the Seine; past the Isle de la Cité—under Pont Neuf—on to Notre Dame. We visit the sidewalk cafes and occupy ourselves with glasses, bottles and ices. Then to the great food market, the philatelic bazaars, the flea market and the Foire Aux Croutes. . . The Arc de Triomphe, the Unknown Soldier's Tomb, a glance down the Champs Elysee. The Eiffel Tower; the Place de la Concorde where stood the guillotine. . . Many other points of historic interest are visited." Producer

Paris markets. ¼R 16-si-\$5 Burton Holmes 914.436

Included in "Paris" listed above

"Market day in Paris; a visit to the great food market; the Philatelic Bazaar or stamp collector's paradise; the Flea Market, and the Foire Aux Croutes where unknown painters sell masterpieces direct to connoisseurs." Colorado

914.5 Italy

Venice. 1R 16-si-apply 35-si-nf-apply Soc. for visual educ. 914.5

"Picture of the city of islands, Queen of the Adriatic. The Grand Canal with its gondolas, the Bridge of Sighs, the art and history of the ages concentrated in the Church of Saint Mark, where the doves swoop at feeding-time, the grim hulks of captured battleships in the harbor, and the sunset from the Palace of the Doges." Producer

Guide

914.6 Spain

In old Granada. ¾R 16-si-\$17.50 Burton Holmes 914.6

The one time Moorish City. Gypsy cave dwellings. Alhambra Hill; River Darro. Court of Myrtles and Lions

In old Madrid. (Traveltalks) 10min 16-si-sd-\$30 35-si-sd-f-rent \$3.50 1931? Fitzpatrick 914.6

Pictures of the people and a contrasting of the old architecture with the new sh-c Guide

Mediterranean mecca. (Port o' call ser.) 10min 16-si-sd-\$20, \$25 35-si-sd-nf-\$35, \$42.50 1934 Imperial distributing corp. 914.6

Gives scenes in Madera, Gibraltar and Palma de Mallorca. Includes a marimba orchestra. Deane H. Dickson is the author and narrator jh-sh-c

914.71 Finland

Finland. 15min 16-si-\$24 1935 Eastman 914.71

"Views of Helsingfors, the capital, as well as lumber and pulp industries. Other items illustrated in this film are water power, country life, dairy industry, canals, salmon fishing, athletics, winter sports, and views of the ice breakers which keep the harbors open." Iowa univ. el-jh Guide

914.8 Scandinavia

Children of Scandinavia. 6min 16-si-\$30 Kodascope 914.8

Produced by Post
"Children of mountain and city in picturesque dress. Laplanders. Folk dancing." California

914.81 Norway

Norwegian sketches. 1R 16-sd-\$30 Gut-lohn 914.81

A scenic reel of Norway showing the king's palace, fjords, towering mountains, stupendous glaciers, and a country wedding

914.85 Sweden

Sweden. 15min 16-si-\$24 1934 Eastman 914.85

Mining activities north of the Arctic; Lapps and their herds of reindeer; logging; native costumes and customs in rural districts; Stockholm; tomb of John Ericsson; University at Uppsala; Göta canal; Göteborg; ruins at Visby; estates of nobility; winter and summer sports jh Guide

914.89 Denmark

Denmark. 15min 16-si-\$24 1934 Eastman 914.89

"Typical farm life in Denmark, the manufacturing of matches, chocolate candy, and Danish porcelain. Also, views of the

capital, various castles, including Kronborg Castle at Elsinore—the scene of Shakespeare's 'Hamlet.' Missouri el-jh Guide

914.92 Netherlands

Beside the Zuider Zee. 1R 16-si-apply 35-si-nf-apply Soc. for visual educ. 914.92
"In the little village of Volendam where this picture was made, the natives still maintain the customs and wear the quaint costumes of the Holland of long ago. Volendam is veritably a 'Spotless Town.' Even the streets are scrubbed until they are as clean as the tile kitchens." Producer jh Guide

Canals and streets of Amsterdam. ¼R 16-si-\$5 Burton Holmes 914.92
"The Dutch Metropolis; the Royal Palace; the old Mint Tower." Producer
A silent version of part of "Holland and the Dutch" listed below

Children of Holland. 6min 16-si-\$30 Kodascope 914.92

Produced by Post
Children in Volendam at work and at play. Also a visit to Marken, a small island nearby, where slight differences in costumes are noted

Going to Volendam. ¼R 16-si-\$5 Burton Holmes 914.92

"Steamboats, launches and sailboats on Holland's liquid highways. Volendam, beside the Zuider Zee and the Volendamers." Producer
A silent version of part of "Holland and the Dutch" listed below

Holland and the Dutch. 11min 16-sd-\$24 1932 Burton Holmes 914.92

Described by Ernest R. Clark
"Amsterdam, the Royal Palace, the diamond cutters—Volendam, liquid highways, children, wooden shoes and 'bloomer pants'—Alkmaar and its cheese market,—the Isle of Marken." Producer

Isle of Marken. ¼R 16-si-\$5 Burton Holmes 914.92

"Tourists arriving in the village; narrow ways; wash-day; full skirt and queer looking hats; hay making." Producer
A silent version of part of "Holland and the Dutch" listed above

Little Dutch tulip girl. (Children of all lands ser.) 1R 16-si-\$24 35-si-nf-\$60 1929 Films of commerce 914.92

Produced by Pathe. Madeleine Brandels is the author

Falling asleep a little American boy dreams of a little Dutch girl who is dressed in her native costume. With her he visits the Hague, Aalsmeer where he is shown the art of tree clipping, Leiden, the Isle of Marken and the famous tulip and cheese industries of the Netherlands. He sees Dutch children at play and in school and learns why Holland has dikes el-jh-sh

914.93 Belgium

Beautiful Bruges. ¼R 16-si-\$5 Burton Holmes 914.93

Scenes in the city of many bridges and many canals, narrow alleys and broad boulevards of water. A silent version of part of "Belgium—the beautiful" listed below

Belgian cities. 1R 16-si-\$25 35-si-nf-\$75
Harvard 914.93

"Presents a brief survey of Belgium's leading cities, each distinct from the other in historical background. . . Bruges is medieval in spirit with its canals, quaint streets, buildings, and its lace-making. At Ostend, there is the fishing fleet sailing out at dawn, and the pleasure beaches. Antwerp on the Scheldt is chiefly commercial, ranking as one of the most important ports of Europe. Brussels, the capital, is centrally located between the Flemish lowlands and the higher, French-speaking south. Liège with its industrial smoke and steam presents a more modern but equally artistic picture." Producer

Belgium—the beautiful. 11min 16-sd-\$24
1932 Burton Holmes 914.93

Described by Ernest R. Clark
"Its important cities, its picturesque canals and its country life are presented. . . Brussels, its palaces, gardens and people—Bruges, the city of bridges, a quaint dreamy town of old Belgium—Rural Belgium, straight highways, dog-carts, fertile fields and windmills." Producer

Bustling Brussels. ¼R 16-si-\$5 Burton
Holmes 914.93

King Albert's palace, the Brouse, boulevard life, the Palace of Justice, the flower market and the old Hotel de ville

A silent version of part of "Belgium—the beautiful" listed above

In rural Belgium. ¼R 16-si-\$5 Burton
Holmes 914.93

"Belgium highways lined with fine trees. Calm canals and windmills hinting of Holland." Producer

A silent version of part of "Belgium—the beautiful" listed above

914.94 Switzerland

Village life in Switzerland. 1R 16-si-apply
Edited pictures 914.94

Scenes of hidden mountain towns and of some bordering the Swiss lakes

914.96 Balkan states

Children of the Balkans. 8min 16-si-\$30
Kodascope 914.96

Produced by Post

"Armenian, Albanian, Roumanian, Bulgarian, Serb, Greek, and Turk children in native costumes, at work, at play, and in school." California

914.98 Rumania

Children of Roumania. 6min 16-si-\$30
Kodascope 914.98

Produced by Post

"Boys and girls busy at home industries." California

915 ASIA

915.1 China

City that never sleeps. 20min 16-si-\$23.42
35-si-f-nf-apply Bray 915.1

Habits, customs and people of China; the river; natives who live in boats; Chi-

nese junks; walled city of Canton; native quarter, bazaars, pagodas; Sha-mien, where foreign residents live
el-jh-sh

Kwang Chow Fu. ¼R 16-si-\$5 Burton
Holmes 915.1

Street processions and rickshas along the waterfront of the ancient city of Canton

915.17 Mongolia

Mongols of Central Asia. (Harvard Pathe ser.) 15min 16-si-\$24 35-si-nf-\$60 1929
Films of commerce 915.17

Central Asiatic expeditions of the American museum of natural history, produced by Pathe

"Shows characteristics of the Mongol, the purest type of Asiatic man; also dwellings, games, customs and clothes." Kansas

915.2 Japan

Four seasons in Japan. 40min 16-si-loan
80min 35-sd-nf-loan Japan tourist 915.2

Also available in a 2R version (20min 16-si-loan 30min 35-si-nf-loan)

"Reel one of this film depicts springtime in Japan with cherry blossoms, willow trees, artists sketching along the banks of a river, picnics, and boys' festivals. Reel two shows summer resorts with their swimming, sailboats, folk dances, and fire works. Autumn is represented in reel three by the sports season of Tokyo showing pole vaulting, discus throwing, fencing, and wrestling. Reel four shows the winter sports of skiing, skating, the amusement quarters, and prayers in Meiji Temple for prosperity during the New Year. [Useful in] geography and nature study [classes]"
Am. museum of nat. hist.
el-jh

Japan and her problems. 2R 16-si-rent \$3
35-si-nf-rent \$6 Religious motion picture found. 915.2

Presentation of the background of Japanese life
el-jh-sh-c

Nikko. 10min 16-si-loan 20min 35-si-nf-loan Japan tourist 915.2

A tour of Nikko showing streets and buildings, winter mountains, Lake Chuzenu and Kegon waterfall

el-jh-sh-c

915.29 Formosa

Push car trails in Formosa. ¾R 16-si-\$15
Burton Holmes 915.29

"Hiking by rail into the wild interior; camphor stills; building bamboo houses." Producer

915.3 Arabia

Wanderers of the Arabian desert. (Harvard Pathe ser.) 15min 16-si-\$24 35-si-nf-\$60 1929 Films of commerce 915.3

Produced by Pathe

"The picturesque, hardy, war-like Arab lives in the occasional stretches of fertile country in the Arabian desert. Here highly skilled horsemen breed and school the

Wanderers of the Arabian desert—Cont.
famous Arabian horse. Sheep and goats are herded in the hills. As they move from place to place, the women load the camels with goat-hair tents and unload them when the move is over. Spinning, weaving, bread-making, and other activities of these nomadic peoples are shown."
Indiana el-jh

915.4 India

Benares. 15min 16-si-\$24 35-si-nf-\$60 1927
Films of commerce 915.4

By Duncan Underhill
Hindu life along the Ganges in the sacred city of Benares showing customs and industries of these people who live much of their lives on the holy steps leading straight to heaven
jh

Calcutta. 15min 16-si-\$24 35-si-nf-\$60 1927
Films of commerce 915.4

Scenes in and around Calcutta and the part that commerce, caste and tradition play in the lives of the inhabitants
jh

Gateway to India. (Traveltalks) 10min 16-si-sd-\$30 35-si-sd-f-rent \$3.50 1931
Fitzpatrick 915.4

Shows Bombay with its race course, a performing bird, fisherwoman, drying of fish, and the royal elephants
jh-sh-c

Hindu holiday. 15min 16-sd-\$30 Gutlohn 915.4

Showing Hindus as a fun-loving people in their play and most ceremonious in their worship

Kashmir, old and new. 15min 16-si-\$24 35-si-nf-\$60 1927 Films of commerce 915.4

Produced by Pathe
"The influence of tradition in the lives of the inhabitants. Religious rites of both Mohammedans and Hindus. The art of paper-making as practised by the people of Kashmir, contrasted with the new schools which emphasize health with scholarship." Distributor
jh

Kipling's Mandalay. 4R 16-si-\$80 35-si-f-nf-\$120, \$140 Film classic ex. 915.4

"From Mandalay to Irrawaddy, the country, its people and colorful life pass in review." Missouri
"It is said that more elephants appear in this film than in any ever taken previously." Producer

Pageantry of India. 1R 16-si-\$15 Inst. cinema serv. 915.4

Produced by Urban
"Showing how the elephants and other animals are bathed and decorated for the pageantry of India. The Pageantry parade is also shown." Colorado

915.48 Ceylon

Charming Ceylon. (Traveltalks) 10min 16-si-sd-\$30 35-si-sd-f-rent \$3.50 1931
Fitzpatrick 915.48

Street and boat traffic of Colombo, winnowing of rice, the Devil dance of Kundy, elephants, fishing boats and fishermen and a Singalese waiter are shown
jh-sh-c Guide

Women workers of Ceylon. 15min 16-si-\$24 35-si-nf-\$60 1927 Films of commerce 915.48

Produced by Pathe
"Everyday life of the Ceylonese women and their many hardships. Cooking, laundering, caring for children and raising the cocoa." Distributor
jh

915.5 Persia

Grass. 19min 16-sd-apply Kodascope 915.5

Originally produced, by Paramount and is based on M. C. Cooper's "Grass." Also obtainable in a longer version (40min 16-sd-rent \$3)

The semi-annual migration of the Baktyari tribe in Persia. 50,000 people with their flocks and herds overcome great hardships to obtain life-sustaining grass. A beautiful and most interesting film

915.69 Palestine

Holy Land. 1R 16-si-\$15 Inst. cinema serv. 915.69

Produced by Urban
"Jerusalem; Bethlehem and Gethsemane; Haifa, Nazareth, Tiberias, Sea of Galilee." Wisconsin

In hallowed paths. 1R 16-si-rent \$2 Religious motion picture found. 915.69

With colored slides of famous pictures of these events the rent is \$3.50

"Scenes in Palestine associated with outstanding events in the life of our Lord." Producer
el-jh-sh-c

Paths in Palestine. 1R 16-si-sd-loan 35-sd-f-loan Navy recruiting serv. 915.69

The United States Navy in the Holy Land showing scenes of the River Jordan, Sea of Gallilee, Jerusalem, Bethlehem and scenes of the crucifixion

Pilgrimage through Palestine. 15min 16-sd-\$30 Gutlohn 915.69

Many points of interest are shown in the Holy Land, among them Mt Carmel, Nazareth, Sea of Galilee, Jordan river, Dead Sea, Bethlehem, Jerusalem and the Mount of Olives

915.7 Siberia

Taming the Taiga. 2R 16-si-\$60 Bell & Howell 915.7

"The Ude people are a lost tribe in the Ussurian region of Asia. The tribe lives mainly on finely sliced raw fish. The picture depicts the strange rites of the 'good and evil spirits' and the modern rites of a first movie showing. The work of the new cooperative society is shown, contrasted with the ancient heritage of witchcraft." Wisconsin

915.8 Afghanistan

Changing times in Afghanistan. 1R 16-si-\$30 Bell & Howell 915.8

"Only authorized recent picture of life in the long forbidden country during King Amanullah's time." Producer

Changing times in Afghanistan—Continued

"In the summer of 1928 a special expedition studied the land and its ways. The film presents the customs and modes of the past; the innovations of the machine age; the human processes unfolding amid the mountains and the valleys; the monuments and ruins of ancient Afghanistan; the heterogeneous population; king, dervish, fakir, long-haired mountaineer, Mongol, Hindu." Wisconsin

"Primitive methods of agriculture are shown, likewise the towns; camel, buffalo, and elephant transport; ruins of ancient temples; and the surprisingly forced draft of modernity introduced by King Amanullah." Kansas

915.95 Malay Peninsula

Souvenirs of Singapore. ½R 16-si-\$12.50
Burton Holmes 915.95

"Harbor. Chinese stores. Hindu temple. Bazaars. Street scenes. Junks and lighters. Tapioca industry. Types of natives." California

916 AFRICA

Cairo to Capetown. 1R 16-si-sd-loan 35-si-f-loan Navy recruiting serv. 916

"A visit to ports on the coast of Africa—with a running talk by the 'Globe Trotter.'" Producer

el-jh-sh-c

916.2 Egypt

Bazaars of Cairo. ¼R 16-si-\$5 Burton Holmes 916.2

A day in the fascinating streets of Cairo. We see donkey carts, veiled women, bird cages carried on the head, bargain-hunting women, hard-fisted merchants and water venders

Calling on the sphinx. ¼R 16-si-\$5 Burton Holmes 916.2

The Sphinx is shown from several different points of view, along with excavated ruins near there

Egypt; land of the pyramids. (Travel-talks) 10min 16-si-sd-\$30 35-si-sd-f-rent \$3.50 1931 Fitzpatrick 916.2

A sight-seeing trip through Gibraltar, Alexandria and Cairo. Among the sights are the date palms, mosques, University of Cairo, the opera house, market place, camels, pyramids and the Sphinx

el-jh-sh Guide

916.3 Ethiopia

Ethiopia. 11min 16-si-sd-\$24, \$30 1936
Burton Holmes 916.3

Narrated by Harlow Wilcox. An outstanding film showing the nature of the country and its people, dealing with the history, various races, theory of government, economic peculiarities, living conditions, trades and religions. The present situation is considered and some of the Italo-Ethiopian war angle

916.4 Morocco

Found in Morocco. 15min 16-sd-\$30 Gut-lohn 916.4

Shows Morocco, its market place and the handicrafts of the people, also Fes
el-jh-sh-c

916.6 North Central Africa

Life in the Sahara. 15min 16-si-\$24 1932
Eastman 916.6

In this picture of Nomadic desert camp life and a journey by caravan to the oasis market place with its busy bazaars we see views of the milking of goats and sheep, grinding of grain, bread making, crushing of rock salt and weaving of camels' hair. We see a donkey train, baby camel, date palms, typical natives and street scenes and a Mohammedan mosque

el-jh Guide

916.7 South Central Africa

East Africa. 5min 16-si-\$25 Deimer 916.7

"We see the beautiful harbor and primitive native life of Dar-es-salaam. Then to Zanzibar with its narrow streets and peculiar native dwellings and out to the clove and coconut plantations. Mombasa is pictured with its unusual occupations and Swahili life." Indiana

Forest people of Central Africa. (Harvard Pathe ser.) 15min 16-si-\$24 35-si-nf-\$60 1929? Films of commerce 916.7

Produced by Pathe

"Intimate study of the African pygmies, who have so seldom been photographed; their crude brush villages, and their skill at bringing down game with poisoned arrows. Negro women demonstrate their routine of daily domestic life, including the making of pottery. The men manufacture objects of iron by means of the crudest of processes. The typical negro dance at the end shows a striking parallelism to modern American steps." Distributor

el-jh-sh-c Guide

Masai. (Harvard Pathe ser.) 15min 16-si-\$24 35-si-nf-\$60 1929 Films of commerce 916.7

The Masai are a warlike tribe of East Africa who go in for cattle-herding. They build houses from cow-dung, drink blood and milk from living cows and indulge in extraordinary military callisthenics

jh-sh-c Guide

917 NORTH AMERICA

Electric ship. 2R 16-si-loan 35-si-f-nf-loan
General electric 917

Also obtainable in a 35mm one reel sound version

"A trip from New York to San Francisco aboard a new all-electric liner, S.S. Virginia. Shows many enjoyable and interesting features of the trip and also many interesting features of the electric ship equipment." Illinois

el-jh-sh-c

917.1 Canada

Falling waters. (Seeing Canada ser.) 8min
16-si-\$10.65 35-si-nf-apply Canadian
gov't. 917.1

"A scenic film depicting many of Canada's most picturesque waterfalls with descriptive poetic titles from the works of famous nature poets. [Useful in] English and geography [classes]." Am. museum of nat. hist. Jh

Maritime provinces. (Seeing Canada ser.)
5min 16-si-\$8.52 35-si-nf-apply Canadian
gov't. 917.1

"Glimpses of many of the outstanding features of the Provinces of Nova Scotia, New Brunswick and Prince Edward Island. Included are views of the cities of Halifax, Charlottetown, St. John, Fredericton and Moncton, the scenic beauties of Cape Breton, Nova Scotia's south shore, the Annapolis Valley and the Restigouche Valley and glimpses of fox farming in Prince Edward Island and hunting and fishing in New Brunswick." Producer Jh

Robson trail. (Seeing Canada ser.) 6min
16-si-\$9.15 35-si-nf-apply Canadian
gov't. 917.1

"A scenic travelogue commencing at Winnipeg, Manitoba, through Wainwright National Park and Wild Life Refuge, Jasper National Park, and along the famous Skeena River to Prince Rupert, B.C." Producer Jh-sh

When day is done. (Seeing Canada ser.)
5min 16-si-\$6.90 35-si-nf-apply Canadian
gov't. 917.1

"A picture poem in which the camera has caught and woven together the glories of several Canadian sunsets." Kansas

917.11 British Columbia

Camp fires among snow peaks. (Seeing Canada ser.) 14min 16-si-\$10.95 35-si-nf-apply Canadian gov't. 917.11

"Scenic film of a journey up the Bow Valley into Yoho National Park and Wilcox Pass, showing how alpinists at the top of the world make this ascent into territory hitherto unexplored." Producer

Canada's Pacific gateway. (Seeing Canada ser.) 5min 16-si-\$7.77 35-si-nf-apply Canadian gov't. 917.11

"A visit to the great Canadian city of Vancouver." Utah el-Jh

City of sunshine. (Seeing Canada ser.)
10min 16-si-\$7.44 35-si-nf-apply Canadian
gov't. 917.11

"A travelog of Canada's evergreen city, Victoria, British Columbia, famed for its flowers and scenic attractions." Colorado

"Beacon Hill Park, the Mayor's Garden, the Dominion Observatory . . . and the Butchart Gardens." Producer

Tenderfoot trails. (Seeing Canada ser.)
5min 16-si-\$8.76 35-si-nf-apply Canadian
gov't. 917.11

"Three city men who sought something new in the way of vacations on a 'Dude Ranch' in the heart of the Canadian Rockies. In addition to countless glimpses of mountain scenery the film contains . . .

action views of cowboys riding wild, bucking horses, trail riding, angling for rainbow and cut-throat trout in glacial lakes and streams, a visit to a Cree Indian encampment and other . . . features." Producer

Through the Norway of America. (Seeing Canada ser.) 6min 16-si-\$9.66 35-si-nf-apply Canadian gov't. 917.11

"The water cruise between Vancouver and Prince Rupert along the rugged picturesque coast of British Columbia with glimpses of places and things to be seen en route." Producer el-Jh

Yoho. (Seeing Canada ser.) 5min 16-si-\$7.74 35-si-nf-\$15.48 Canadian gov't. 917.11

Scenes of the beautiful valley which bears the name of the Indian word for surprise and wonder—Yoho—and of the Emerald Lake region in Yoho Park, British Columbia sh

917.12 Northwest territories

Down north. (Seeing Canada ser.) 8min
16-si-\$10.59 35-si-nf-apply Canadian
gov't. 917.12

"The first film ever produced of the MacKenzie River district in Northern Canada, containing glimpses of the great waterway which flows north into the Arctic Ocean together with views of farming, oil-drilling, etc." Producer

917.123 Alberta

Bit of high life. (Seeing Canada ser.)
6min 16-si-\$8.85 35-si-nf-\$44.04 Canadian
gov't. 917.123

"Scenic film following the journeys of alpinists on unblazed trails near Lake Louise, depicting the wonders of Bow Lake, and finally taking the traveller after many adventurous climbs into the Columbia ice area and back to Laggan." Producer "Useful in] geography [classes]" Am. museum of nat. hist. el

Daughter of the glaciers. (Seeing Canada ser.) 10min 16-si-\$9.36 35-si-nf-\$18.72 Canadian gov't. 917.123

"Cold, clear, beautiful Maligne Lake, set in a mountainous region, fed by glaciers. The film takes you around the lake by boat and verifies the words of the artist who said, 'Where others are chamber music, Maligne is a great orchestra.'" Colorado Jh

Kicking horse trail. (Seeing Canada ser.)
5min 16-si-\$7.95 35-si-nf-apply Canadian
gov't. 917.123

"Opening with the incident which gave the Kicking Horse Pass its name in 1858, the picture follows the new motor road from Lake Louise to Golden. . . Natural Bridge, Snowpeak Avenue, the Great Divide and Wapta Falls." Producer

Leaves from a ranger's note book. (Seeing Canada ser.) 6min 16-si-\$9.21 35-si-nf-apply Canadian gov't. 917.123

"Experiences of a Rocky Mountain Ranger in beautiful Jasper National Park in Canada. Very beautiful scenery is shown." Colorado

Motoring in cloudland. (Seeing Canada ser.) 6min 16-si-\$9.36 35-si-nf-apply Canadian gov't. 917.123

"A travelogue of the new Banff-Windermere highway through the central Canadian Rockies." Colorado

Ride 'em cowboy. (Seeing Canada ser.) 5min 16-si-\$11.04 35-si-nf-apply Canadian gov't. 917.123

"An excellent picture of the famous Calgary Stampede held annually in the 'City of the Foothills.'" Utah
Jh

Top o' the world. (Seeing Canada ser.) 6min 16-si-\$9.51 35-si-nf-apply Canadian gov't. 917.123

"Trail riders and alpinists in Mount Robson section of Jasper National Park, Alberta." Colorado

Valley of a hundred peaks. (Seeing Canada ser.) 8min 16-si-\$11.16 35-si-nf-apply Canadian gov't. 917.123

"A trail ride into the Tonquin Valley. . . of Jasper National Park, Alberta, with. . . views of spectacular mountain scenery." Producer

Where beauty dwells. (Seeing Canada ser.) 6min 16-si-\$9.90 35-si-nf-apply Canadian gov't. 917.123

"Pictures of Jasper National Park. The trip from Jasper Lodge to Maligne Lake is beautiful. In addition to views of the famous Maligne Trail, Maligne Canyon, and Medicine Lake, this film depicts the beauties of Maligne Lake." Indiana

"[Useful in] geography and nature study [classes] Am. museum of nat. hist."
Jh

917.13 Ontario

Canada's queen city. (Seeing Canada ser.) 8min 16-si-\$9.51 35-si-nf-apply Canadian gov't. 917.13

"Glimpses of Toronto's chief points of interest, including views of the annual Canadian National Exhibition." Utah
Jh

City at the foothills. (Seeing Canada ser.) 5min 16-si-\$7.65 35-si-nf-apply Canadian gov't. 917.13

"The romantic city of Calgary with its lore of the cow-camp and the trapper." Utah

"Glimpses of the world-famous 'Stampede' and the Turner Valley oil-fields." Producer
Jh

Region of romance. (Seeing Canada ser.) 8min 16-si-\$11.01 35-si-nf-apply Canadian gov't. 917.13

"Beautiful scenes of Lake of Bays in Highlands of Ontario, Muskoka River, scenes of Wawa, Norway Point, Bigwin Island." Minnesota
Jh

With dog team and snowshoes. (Seeing Canada ser.) 6min 16-si-\$10.14 35-si-nf-apply Canadian gov't. 917.13

"Depicting the experiences of a winter vacation party in the Lake Penage district." Producer
Jh

917.14 Quebec

Canada's metropolis. (Seeing Canada ser.) 12min 16-si-\$10.34 35-si-nf-apply Canadian gov't. 917.14

"Not only one of the largest and most important cities but the second largest oceanport on the North American continent, Montreal, the metropolis of Canada, with a history indelibly linked with the development of the New World and its old French-English atmosphere, has many and varied features of interest. This short travelogue offers glimpses of many of the 'highlights' of this historic and cosmopolitan city." Producer
Jh

Laurentian lures. (Seeing Canada ser.) 8min 16-si-\$10.83 35-si-nf-apply Canadian gov't. 917.14

"The experiences of a party of anglers in their quest for speckled trout, and the story of a unique wager with a surprising climax." Producer
Jh

Province of Quebec. 15min 16-si-\$24 1932 Eastman 917.14

"Shows the Saguenay River region of the Laurentian Uplands—pulp and paper mills, backwoods life; the Lower St. Lawrence—Cape Gaspé, the fishing industry, Murray Bay, Ste. Anne de Beaupré, Quebec, and asbestos mines; the Upper St. Lawrence—picturesque French-Canadian 'habitants,' and Montreal." Producer
el-Jh Guide

Rambles in Gaspesia. (Seeing Canada ser.) 8min 16-si-\$11.13 35-si-nf-apply Canadian gov't. 917.14

"Jutting out into the Gulf of St. Lawrence like the claw of a giant lobster, lies Gaspé, the Normandy of Canada. A region of sea-scarred cliffs, rolling hills and quiet pastoral scenes, this land of striking scenery, picturesque Quebecois fisher-folk and quaint customs, is unlike any other spot in all North America. [Useful in] geography [classes] Am. museum of nat. hist."
Jh

River of deep waters. (Seeing Canada ser.) 6min 16-si-\$9.24 35-si-nf-apply Canadian gov't. 917.14

"Depicts the steamer trip from Quebec to quaint Chicoutimi and offers glimpses of Murray Bay, Tadoussac, the famous Capes, and other features that have made this river famous for its historic associations and scenery." Producer

917.15 New Brunswick

Salmon angling on the Restigouche. (Seeing Canada ser.) 5min 16-si-\$8.85 35-si-nf-apply Canadian gov't. 917.15

"Depicts a trip to this lovely stream and includes, in addition to angling salmon, glimpses of wild life in Northern New Brunswick." Massachusetts
el-Jh-sh-c

917.16 Nova Scotia

City by the sea. (Seeing Canada ser.) 5min 16-si-\$7.98 35-si-nf-apply Canadian gov't. 917.16

"Halifax, the capital of Nova Scotia, one of Canada's greatest ports, and a city of much interest." Utah

Land of Evangeline. (Seeing Canada ser.)
7min 16-si-\$9.84 35-si-nf-apply Cana-
dian gov't. 917.16

"A scenic travelogue of the Minas region of Nova Scotia immortalized by Longfellow's epic poem, with glimpses of the historic spots in old Acadia as they appear today. The general countryside, apple orchards, the village of Grand Pré, statue of Evangeline, the Old Well, the ancient dykes, the pasture lands and many other beautiful scenes. [Useful in] English, history and geography [classes]." Am. museum of nat. hist.

el-jh-sh

Magic Minas. (Seeing Canada ser.) 5min
16-si-\$7.38 35-si-nf-apply Canadian
gov't. 917.16

"A scenic travelog of the historic Acadian district of Nova Scotia." Missouri

'Mid sunshine and sea-breezes. (Seeing Canada ser.) 5min 16-si-\$8.31 35-si-nf-apply Canadian gov't. 917.16

"A scenic travelogue of the southwestern section of Nova Scotia, including views of Digby, Bear River and the quaint French Shore." Producer

Random glimpses of Cape Breton. (Seeing Canada ser.) 6min 16-si-\$9.15 35-si-nf-apply Canadian gov't. 917.16

"A scenic film of the little known beauty spots and historic places of Canada's most easterly territory—Cape Breton, which includes views of historical Louisburg, the Lingan Rock, the rugged northern section of the island around Ingonish and the beautiful Bras d'Or Lake district." Producer

Seaside summerland. (Seeing Canada ser.)
5min 16-si-\$8.97 35-si-nf-apply Cana-
dian gov't. 917.16

"Along Nova Scotia's south shore. Yarmouth. Fishing. Shelbourne. Liverpool. Bridgewater. Along La Have River. Petite Riviere. Lunenburg and Chester." California

917.2 Mexico

Mexico. 15min 16-si-\$24 1930 Eastman
917.2

"From seacoast to snow-crowned mountain tops, native life and activities illustrate the latent possibilities, as well as the progress, of the country of Mexico." Kansas el-jh-sh-c Guide

917.28 Central America

Central America. 15min 16-si-\$24 1930
Eastman 917.28

"Presents a study of the peoples, cities, industries and resources of Central America. Shows urban streets, natives, ox teams, an open market and a railroad station; also typical luxuriant vegetation, and mahogany forests. An animation points out the mahogany area. A timber scout locates large trees for cutting; a clearing is made; a tree is felled, cut into lengths, hauled to a stream, and floated to the shipping port. The animation continues, showing the banana area. Jungle land is cleared, banana buds are planted, young plants are shown, small bananas begin to form, and green fruit is gathered for shipment.

Another animation locates the cacao and coffee areas. Cacao pods are collected, coffee berries picked, coffee and bananas loaded for shipment." Producer el-jh Guide

In the path of the galleons. 40min 16-si-loan 35-si-nf-loan 1935 Grace line
917.28

A James A. Fitzpatrick travel picture. With special emphasis on Guatemala this shows the Grace line cruise from New York thru the Spanish Americas to Mexico and California

917.29 West Indies

From Haiti to Trinidad. 15min 16-si-\$24
1930 Eastman 917.29

"Presents Haiti, Puerto Rico, the Lesser Antilles, and Trinidad. Views of West Indian native life, important cities, the volcanic island of Martinique, the British colony of Barbados, and industries such as coffee, asphalt, sugar." Producer el-jh Guide

From the Bahamas to Jamaica. 1R 16-si-rent 50c Church 917.29

"The American Mediterranean. Views include the harbor of Nassau; sponge industry; Havana and harbor; sugar cane and tobacco industries; Jamaican native life and industries." Indiana

From the Bahamas to Jamaica. 15min 16-si-\$24 1930 Eastman 917.29

"Typical West Indian views, Roaring River, map animations. The Bahamas, Nassau, harbor, street scenes, tea gardens, sponge fishing, sorting and shipping sponges. Cuba, Morro Castle, Havana, capitol building, old Havana, highway, sugar and tobacco culture. Jamaica, Kingston, Arcade, Spanish Town, native life, banana plantation, native market." Ohio el-jh Guide

Isles of romance. (Seeing Canada ser.)
9min 16-si-\$11.67 35-si-nf-apply Cana-
dian gov't. 917.29

"A boat trip from Canada through the isles of British West Indies to Britain's only territorial possession in South America—British Guiana. Shows Bermuda, St. Kitts-Nevis, Antigua, Montserrat, Dominica, St. Lucia, Barbados, St. Vincent, Granada, Trinidad, and Demerara." Kansas jh

Isles of sunshine. 1R 16-si-loan Canadian
nat. ry. 917.29

"Deplets an ocean cruise to many interesting islands: Bahamas, Cuba, Haiti, Jamaica, Trinidad, Barbados, and Porto Rico." Illinois

917.295 Puerto Rico

Puerto Rico. 15min 16-si-\$24 1931 East-
man 917.295

"Indicates development of this island under United States control, and shows how location and climate make it a rich producer of agricultural raw materials. The film units are: San Juan; Schools and Colleges; Rural Life; Agricultural and Industrial Products." Producer el-jh Guide

917.299 *Bermuda*

Beautiful Bermuda. 16min 16-si-\$20 1934
Burton Holmes 917.299

Hamilton and St George are located on animated maps and from the air. The Tourist Special passes through great slashes of coral rock which is seen later being sawed into blocks. There are views of St Peter's church built in 1620 of coral rock and also modern buildings of the same material. An air view over the ocean shows hundreds of coral reefs and coral in many forms is shown below the surface of None Such Island. In the water swim turtles, yellow spotted grunts, giant lobsters and a sea horse drifts slowly past

917.3 UNITED STATES

917.4 North Atlantic states

Middle Atlantic states. 2R 16-si-apply 35-si-nf-apply Soc. for visual educ. 917.4

"Cover the region formed by the Atlantic Coastal Plain and the Appalachian Highlands. They picture the resources which have made this region the busiest on earth, with great lumbering, manufacturing, mining and farming industries and unrivaled trade and commerce. Harbors like that of New York; natural trade routes such as Delaware Water Gap, the Mohawk Valley, the Hudson River, etc.; the mountains and lakes of the Adirondack and Catskill regions, are visualized in a way to bring out the close tie between geography and history." Producer

Guide

New England states. 2R 16-si-apply 35-si-nf-apply Soc. for visual educ. 917.4

"Illustrates the distinctive physical features of New England, and their relation to the industrial and commercial activities of the region. Maine's rockbound coast, Boston Harbor, the Berkshires, the valley of the Connecticut, Lake Champlain, etc., are shown; typical cities like Boston, Fall River, Hartford, Providence; typical industries like lumbering, quarrying, pasturing sheep and cattle, shipping apples, fishing, lobster-catching, etc.; typical historic spots like Lexington and Concord, Plymouth Rock and Pilgrim's Monument." Producer

Guide

917.47 *New York state*

Mohawk valley. 15min 16-si-\$24 1927
Eastman 917.47

From Indian explorer to canal builder and railroad engineer, the Mohawk valley has been used as a route to the land beyond the Appalachians. The Valley in pioneer days and today. A trip showing the many evidences of industrial activity and agricultural wealth, making stops at principal cities along the route

el-jh Guide

Study of Niagara. 30min 16-si-\$45 35-si-nf-\$100 1922 Soc. for visual educ. 917.47

"The geography and beautiful scenery of the region and . . . some idea of the geologic history of the Falls and Gorge. . . Chalk sketches drawn by Dr. W. W. At-

wood, picture the river from Lake Erie to Lake Ontario, a section of the Falls, and the Whirlpool, and show how the Falls have worked back through the Gorge. Motion pictures visualize noted scenic features, and special airplane views give an . . . idea of the relative positions of the various points of interest." Producer

Guide

Winter witchery of Niagara. (Seeing Canada ser.) 5min 16-si-\$6.24 35-si-nf-apply Canadian gov't. 917.47

"Niagara in winter dress is incomparably beautiful. This film depicts the glories of the great cataract under the Frost King's magic mantle when its picturesque environs are transformed by frozen spray into weirdly beautiful and fastastically shaped ice formations." Producer

"[Useful in] geography and nature study [classes]" Am. museum of nat. hist.

jh

917.471 *NEW YORK CITY*

New York impressions. 1R 16-si-\$25 35-si-nf-\$75 Harvard 917.471

"Consists of an artistic rather than a geographical presentation of New York City. . . Scenes of deep streets, waterfronts, bridges, boats, smoking chimneys, skyscrapers, and other feats of modern architecture and engineering. The patterns of the buildings seen thus in review, display a new type of beauty peculiar to twentieth century construction and design." Producer

Twenty-four dollar island. 15min 16-si-\$24 35-si-nf-\$60 1927 Films of commerce 917.471

"Impressionistic views throughout the Manhattan Island, showing the industry and commerce, architecture and business life of New York City." Producer

jh-sh

917.5 Southeastern states

Boone trail. 15min 16-si-\$24 1931 Eastman 917.5

"Appalachian Valley, Shenandoah Valley, Natural Bridge, Southern mansion, Big Stone Gap, home cured hams, turkeys, saw mills. Cumberland Gap: coal outcrops, cement plant, lumbering, a mountain cabin—spinning—weaving—basketry — pottery, typical school, town of Cumberland Gap, Middlesboro. Blue-Grass Kentucky. Along the Cumberland river, harvesting tobacco, hemp, fine horses, a blue-grass pasture, Man O' War, dairy cattle, Lexington, Frankfort, the Capitol." Ohio

el-jh Guide

New South. 15min 16-si-\$24 1932 Eastman 917.5

"Traces the rapid progress of the New South: its agricultural products—cotton, tobacco, rice, early vegetables, fruits, nuts; raw materials—marble, aluminum ore (bauxite), coal, limestone, iron; and water power for the paper, cotton-goods and other industries. Birmingham, Mobile, New Orleans, and Miami are shown." Producer

el-jh Guide

Old South. 15min 16-si-\$24 1932 Eastman 917.5

"The land, people, products, communications, plantation life. Animated maps, Virginia coastal landscape, flood plain of Mississippi, mountains of North Carolina. Scene in small town. Negroes cultivating peanuts, tobacco fields, sugar culture, rice culture, cotton culture. The ox cart, Dismal Swamp, canal boat, river steamer. Plantation home, negro pastimes, fox-hunting, southern hospitality." Ohio ei-jh Guide

Southern states. 2R 16-si-apply 35-si-nf-apply Soc. for visual educ. 917.5

"Motion pictures show the level, sandy belt bordering the sea, the Florida Keys, the foothills of the Appalachians; coal-mining in the Birmingham district; the cultivation of cotton, sugar-cane, rice, peanuts and various fruits; lumbering in the famous cypress forests; the manufacture of turpentine." Producer

917.52 Maryland

Chesapeake bay. 15min 16-si-\$24 1930 Eastman 917.52

Evolution and development of the tide-water area. Animated maps show how the gradual sinking of land formed Chesapeake bay. There are views of historic Jamestown. Portsmouth and Norfolk are located. Some of the methods used in the oyster and soft crab industries are outlined. Scenes in Baltimore and of the Naval academy at Annapolis are shown ei-jh Guide

917.53 Washington, D.C.

Carry on. 2R 16-si-loan 35-si-nf-loan 1928 U.S. agric. 917.53

An Extension service film "Scenic film of Washington, D.C., showing the experiences of members of the 4-H Club on a national encampment." Colorado

Washington—the capital city. 15min 16-si-\$24 1930 Eastman 917.53

"Designed particularly for use in geography classes, this film will also be helpful in classes in history and American government. A series of dissolves shows Washington from the air; the District of Columbia, and the Capitol area are located on a relief map; views follow of the Capitol and grounds, the Library of Congress, Pennsylvania Avenue, and the Columbus Memorial. Many other interesting scenes in Washington are also included. The film has been divided into the following units: The Capitol area, White House section, the Mall." Iowa univ. ei-jh-sh-c Guide

917.55 Virginia

Historic scenes along the Mount Vernon memorial highway. 1R 16-si-loan 35-si-nf-loan 1933 U.S. agric. 917.55

A Bureau of public roads film "Places of scenic beauty and historical interest along this beautiful highway from Washington, D. C., to Mount Vernon. This highway was built in commemoration of the 200th anniversary of the birth of George Washington." Iowa state college ei-jh

Virginia—the Old Dominion. 15min 16-si-\$24 1932 Eastman 917.55

"Deplets a region rich in geographic, commercial, and historic interest. Surveys 'Tidewater Virginia' with its cities, land and sea products; 'Piedmont Virginia'; the beautiful 'Blue Ridge' country; the 'fall line' cities and crops; the 'Greater Valley' and its rich tributaries, showing scenic wonders, waterfalls, forests, and pulpwood products." Producer

"May well be used in geography and history classes." Indiana Guide

917.63 Louisiana

New Orleans. 15min 16-si-\$24 1929 Eastman 917.63

"Views of the city, including French quarter, at the wharves, loading cargoes of bananas, coffee, and other South American products. Loading cotton for export." Indiana

"A great amount of useful material has been correlated in this film on a city which has become a central point for the commerce of the Americas." Wisconsin ei-jh Guide

917.7 North central states

Central plains. 2R 16-si-apply 35-si-nf-apply Soc. for visual educ. 917.7

"Agriculture—the most important industry of the Central Plains—is studied via motion pictures taken in various sections. A type study of modern farming methods is included. Other pictures show stock-raising, dairying, poultry farming, etc. There are intimate glimpses of coal and copper mines; huge ore boats; logs from the forests of Wisconsin, Michigan and Minnesota reaching the lumber mills; the famous limestone quarries of Indiana; dam and power-house at Niagara." Producer Guide

917.8 Western states

Great plains. 1R 16-si-apply 35-si-nf-apply Soc. for visual educ. 917.8

"The region between the valley of the Mississippi and the foothills of the Rockies. . . Sheep and cattle on the range and en route to eastern markets; activities on a modern ranch; cowboys in a roundup. . . Views . . . of Denver, the great railroad center of the West, and panoramas of the peaks and foothills of the Rockies." Producer Guide

Rio Grande. 15min 16-si-\$24 1930 Eastman 917.8

"The Rio Grande River, first as a boundary between Mexico and the United States, then showing the people living along the 1300 miles of its course, also irrigation and fruit growing along the lower Rio Grande. The film is divided in the following units: The source of the Rio Grande; the upper Rio Grande; the middle Rio Grande; and the lower Rio Grande." Iowa univ. Guide

Roads in our national parks. 1R 16-si-loan 35-si-nf-loan 1927 U.S. agric. 917.8

A Bureau of public roads film "A panorama of the service performed by the Bureau of Public Roads in constructing modern highways in our western national parks." Producer

Roads in our national parks—Continued

"The scenic wonders of Yosemite, Glacier, Rocky Mountain, Mount Rainier, Mount Lassen, and Mesa Verde National Parks make this film one of unusual beauty and interest." Illinois

Rocky mountains. 1R 16-si-apply 35-si-nf-apply Soc. for visual educ. 917.8

"Visualizes the rich deposits of ore—vast areas of forest—abundant pasturage for sheep—fertile valley farm lands and fruit orchards. The Royal Gorge of the Arkansas, the Black Canyon of the Gunnison River, Rocky Mountain National Park, Glacier Park and Yellowstone, are all shown." Producer

"Arranged for students of geography and its material follows the school requirements for the study of the Rocky Mountains. This film is suitable for general study of Mountain life in which it is desired to give concepts of mountain features, methods of travel, and animal life." Indiana Guide

She's wild. 1R 16-si-loan 35-si-nf-loan 1920 U.S. agric. 917.8

A Forest service film
"Cowboys on the western cattle ranges; with 'broncho busting,' roping and tying, and other exhibitions of horsemanship and range prowess at a cowboy gathering. Indian dances." Producer

917.86 Montana

Glacier national park. 12min 16-si-\$18 1930 Eastman 917.86

"Hiking across a glacier, views in the park, glaciated valleys. Iceberg Lake. Glacier Park flowers, beavers, birds, woodchucks, mountain sheep. An Indian camp, Indian life. Glacier Park Hotel, Swift-current Lake, a Park dining room, chalets, a trail party, tent camp, mountain climbing, crossing a crevasse, trout fishing." Ohio el-jh Guide

917.87 Wyoming

Bird and animal life in Yellowstone park. 1R 16-si-\$25 Northern Pacific ry. 917.87

"Antelope, osprey, duck, nutcracker, beaver, elk, buffalo, bear, gull, pelican, badger, and deer. Geysers and other natural wonders." California

Geysers of the Yellowstone. ¼R 16-si-\$5 Burton Holmes 917.87

"The greater and lesser geysers spout and the comical 'paint pots' gurgle. Old Faithful performs in her most glorious manner." Producer

"Probable origin of geysers; Norris Basin; Mud Geyser; Old Faithful; Cody Road; Pike's Peak." Iowa state college

Magic Yellowstone. 18min 16-si-\$25 35-si-f-nf-\$40 1930? Northern Pacific ry. 917.87

"Shows the natural wonders that are to be found in Yellowstone: waterfalls, Gardiner Canyon, Golden Gate, hot spring terraces, Punch Bowl, mud volcanoes, Old Faithful in eruption, Castle Geyser, Grand Canyon, Yellowstone Falls. It also is a splendid study of birds and other animals to be found there: eagle, pelican, tern, buffalo, bear, deer, marmot, badger. [Useful in] geography, nature study and physiology [classes]." Am. museum of nat. hist.

Yellowstone national park. 15min 16-si-\$24 1930 Eastman 917.87

"Shows molten lava, obsidian cliffs, hot springs, mud volcanoes—illustrates and explains action of geysers—Yellowstone Canyon—pictures bird and animal life—outlines the work of the rangers." Producer

"Especially valuable in geology and geography classes." Massachusetts Guide

917.88 Colorado

Outdoors in Colorado. 3R 16-si-loan 1935 Chicago, Rock island & Pacific ry. 917.88

Contents: Reel 1, Rocky mountain national park; reel 2, Pike's peak region and San Isabel national forest; reel 3, Mesa Verde national park—cliff dwellings, etc.

917.9 Pacific coast states

Pacific mountains and lowlands. 1R 16-si-apply 35-si-nf-apply Soc. for visual educ. 917.9

"Designed to show some of the main features of a land which, although settled comparatively recently, has developed important activities, great lumbering centers, a thriving fishing industry, valuable agricultural areas, and a large commercial and industrial life. There are motion picture studies of its great seaports; glimpses of its industries; views of famous scenic features; and other features that emphasize the economic importance of the Pacific Mountains and Lowlands to the nation." Producer Guide

Roads from surf to summit. 1R 16-si-loan 35-si-nf-loan 1925 U.S. agric. 917.9

A Bureau of public roads film
"Scenic wonders of the national forests of the Pacific Coast States now revealed by modern highways; Lake Crescent in the Olympic National Forest, Mount Hood, Mount Rainier, Mount Baker, Mount Shuksan, and other natural wonders." Texas

Roads to wonderland. 1R 16-si-sd-loan 35-si-sd-nf-loan U.S. agric. 917.9

A Bureau of public roads film
"Scenic spots reached by roads that are built by the Federal, State and county governments; Mount Hood in the Oregon National Forest, and Crater Lake and Yosemite National Parks." Producer

917.91 Arizona

Arid Southwest. 15min 16-si-\$24 1929 Eastman 917.91

"Locates the hot deserts of the world, and pictures a desert sandstorm, remains of a petrified forest, sagebrush and cactus. Most unusual views of animal life in an arid land include a Gila monster, a horned toad, desert scorpions, a rattlesnake, a desert tortoise, a prairie dog, a badger, skunks at play, a wild cat and a coyote. The last part shows the nomadic life of the Navajo in both summer and winter quarters. The men care for the cattle while the women perform their daily tasks of carding, spinning, and weaving wool." Colorado el-jh-sh-c Guide

917.94 California

California's picturesque peninsula. 2R 16-si-apply Church 917.94

"Historic sites, old Spanish Missions, giant redwoods, home of Herbert Hoover, rough and rugged coastline, ocean beaches, Tanforan Races, two great universities and their 'Big Game.'" Producer el-jh-sh

Falling waters of Yosemite. (Travelette) 15min 16-si-\$24 35-si-nf-\$60 1933? Haselton 917.94

Also available in 1/2 reel version (16-si-\$12) and 1/4 reel (16-si-\$6)
"The Waterwheels, Vernal Fall, Nevada, Yosemite, Ribbon, Cascade, Illilouette and the incomparable Bridalveil." Producer

Let's see Yosemite. (Travelette) 15min 16-si-\$24 35-si-nf-\$60 1933? Haselton 917.94

Also available in a 1/2 reel version (16-si-\$12)
"Entering famed Yosemite Valley through Arch Rock this reel takes the spectator past El Capitan . . . on past the world's two highest waterfalls. . . Ribbon and Yosemite . . . to Royal Arches and all of the most interesting sights to be found on the floor of the Valley. Thence to Mariposa Grove of Big Trees; then to Glacier Point with its Overhanging Rock. . . Again on the valley floor the trail leads past charming Vernal Fall. . . The horses are 'parked' at timber line and the steep climb over Half Dome's smooth granite surface begins; a hand cable lends a friendly grip and gives assurance to the timid and in less than an hour the spectator finds himself looking down, almost a mile, into Mirror Lake from Half Dome's Overhanging Rock." Producer

Seeing Yosemite. 2R 16-si-\$7.38 35-si-nf-\$23.62 Nat. park serv. 917.94

Made by the Visual instruction section of the National park service in collaboration with the Office of education
Shows "many scenes which are not common to the general visitor at Yosemite." Iowa univ.

Yosemite national park. 15min 16-si-\$24 1930 Eastman 917.94

Views of well-known peaks—North Dome, El Capitan, Half Dome, and others—are followed by views of mountain lakes, Yosemite Falls, and Bridal Veil Falls. There are also scenes of winter sports
Guide

Yosemite's new roads. 1R 16-si-loan 35-si-nf-loan 1927 U.S. agric. 917.94

A Bureau of public roads film
"The planning and building of new roads into the Yosemite National Park, by the engineers of the Bureau of Public Roads. Yosemite Falls, 2,350 feet, highest in the world, El Capitan, and the exquisite beauty of the Yosemite 'back country.'" California

917.95 Oregon

Oregon country. 15min 16-si-\$24 1930 Eastman 917.95

"Scenes of the covered wagon days are contrasted with those of the country as it is today. The Lewis and Clark route and the Oregon Trail are traced to Fort Hall and Fort Missoula respectively. The route

to Oregon continues through the Hood River country. Scenes along the way include the Columbia highway, salmon fishing, Mt. Hood, Portland, and the salmon industry at Astoria. The film is divided into the following units: Trails to Oregon, Columbia Plateau, the lower Columbia River, the Puget Sound area." Iowa univ. el-jh Guide

917.98 Alaska

Alaska. 15min 16-si-\$24 1930 Eastman 917.98

"Depicts the scenery, industries, and life of Alaska: gold mining, salmon fishing, seal hunting, whaling, native life and schools, and the prosperous farms of American settlers. This film helps to dispel the belief that Alaska is a country of only glaciers, ice, snow." Producer el-jh-sh-c Guide

Along the Alaskan coast line. 15min 16-si-\$15 35-si-nf-\$50 Church 917.98

Arranged and produced by Jack Robertson

"Forests of spruce and hemlock; salmon fishing and canneries; ice breaking away from glaciers in the fjords; Kodiak, the old Russian capital; an old Russian Greek church still in use; silver fox farms; sealions of the rocky coast; coal strata and outcroppings along the shore; Aleut Indians in Southwest Alaska; volcanic area of the 'Valley of Ten Thousand Smokes'; wading through mud, pumice and ashes to reach Mount Katmai." Producer

Trail mates. 30min 16-si-\$40 35-si-f-nf-\$100 Church 917.98

Produced by Captain Jack Robertson
"Depicts the adventures of a little dog 'Wrongstart' and what he sees in Alaska. There are the icebergs, glaciers, numerous birds, fish and animals, such as: ptarmigan in its winter, summer, spring and autumn feathers, the land locked salmon, seal, mountain goats, reindeer, squirrels, bear family, fox family, caribou, sheep, moose, and a family of porcupines with which 'Wrongstart' has a disastrous adventure. There is the shooting of the rapids filled with floating ice and the freezing over of the Tanana River." Producer

918 SOUTH AMERICA

Continent of South America. 15min 16-si-\$24 1931 Eastman 918

"An animation emphasizes the triangular shape of all the continents, and locates South America on the globe. Following mountain scenes, the Andes are located on a map. The Pacific slope is shown to be steep, with short, swift rivers. An animation locates the Brazilian Highlands, and the La Plate Basin, with scenes of its waterfalls and jungles. The Guiana Highlands are located on the map, followed by scenes in the Highlands. The Orinoco Basin is shown, lying between the Andes and the Guiana Highlands, followed by scenes along the Orinoco River. The Amazon Basin is located and pictured." Producer el-jh Guide

Rollin' down to Rio. 12min 16-si-loan 35-si-nf-loan Dynamic 918

This was made in cooperation with the Munson steamship line and is a companion picture to "Under the southern cross" listed below

Rollin' down to Rio—Continued

"A pictorial trip through a continent of contrasts. The scenes in this film cover the great coffee plantations of São Paulo, the unique rattlesnake farm of Butantan and the aerial ferry boats of Buenos Aires. In reel two we see Sugar Loaf Mountain of Rio in silhouette, Iguazu Falls and Montevideo, 'City of Roses.' [Useful in] geography [classes]" Am. museum of nat. hist.

el-jh-sh-c

Under the southern cross. 12min 16-si-loan 35-si-nf-loan Dynamic 918

Made in cooperation with the Munson steamship line this is a companion picture to "Rollin' down to Rio" listed above

"This picture shows street scenes in the cities of Rio de Janeiro and Santos, Brazil; coffee plantations of São Paulo; Montevideo, Uruguay; Buenos Aires, Argentina; Andes Mountains. [Useful in] geography [classes]" Am. museum of nat. hist.

el-jh-sh-c

918.1 Brazil

Brazil. 2R 16-si-rent \$2.50 35-si-nf-rent \$3.75 Religious motion picture found. 918.1

"Rio de Janeiro, and a fascinating trip up the Amazon permits the study of wild and industrial life." Young men's Christian assn.

Brazil—Amazonian lowlands. 15min 16-si-\$24 1932 Eastman 918.1

"Locates the immense drainage basin of the Amazon River. Shows the wild life, native Indians, jungle products—Brazil nuts and wild rubber—and the cities of Manaus, Santarem, Belem (Pará)." Producer

el-jh Guide

Brazil—eastern highlands. 15min 16-si-\$24 1932 Eastman 918.1

"Principal agricultural and industrial products of eastern Brazil—coffee, cacao, cassava (manioc), sugar, tobacco, pineapples, silk, and shoes. Shows São Salvador (Bahia), São Paulo and Santos, the coffee centers, and Rio de Janeiro, the capital." Producer

el-jh Guide

918.2 Argentine Republic

Argentina. 15min 16-si-\$24 1933 Eastman 918.2

"Portrays this South American republic as essentially agricultural and pastoral. Covers Patagonia, a region of sheep grazing; the arid uplands, which produce heavy crops of sugar cane and grapes with the aid of irrigation; the pampas, a flat expanse of loess combining natural grazing grounds in the heart of Argentina with rich agricultural areas near the seacoast. The Transandean Railroad, the port cities of Bahia Blanca and Buenos Aires, and the Victoria Falls of the Iguassu are shown." Producer

el-jh Guide

918.3 Chile

Chile. 15min 16-si-\$24 1932 Eastman 918.3

Scattered settlements, Indian life, lumbering and sheep raising in south Chile; copper and nitrate industries of north Chile; agriculture; Santiago, Valparaiso, and Trans-Andean railroad

el-jh Guide

918.4 Bolivia

Bolivia. 15min 16-si-\$24 1931 Eastman 918.4

"The marked progress made in developing the resources of Bolivia under conditions which render travel and communication difficult. Animated maps locate and emphasize the major geographical regions. Native life, crops, and natural resources are emphasized." Indiana

el-jh Guide

918.5 Peru

Peru. 15min 16-si-\$24 1932 Eastman 918.5

"Shows the rich natural resources, transportation difficulties and living conditions in a land of coastal lowlands, Andean highlands, and interior lowlands. Pictures Lima, and the busy seaport cities; the sources of guano, crude oil, cotton, rice, sugar cane, copper, vanadium, and gold; native Indian life and the Inca ruins." Producer

el-jh Guide

Wings over the Andes. 3R 16-sd-rent \$6 Bell & Howell 918.5

Picture record of the Shippee-Johnson expedition to the mystic land of the ancient Incas, in Peru

el-jh-sh-c

918.6 Panama

Panama canal. 15min 16-si-\$24 1927 Eastman 918.6

"Pedro Miguel Locks, the Gaillard Cut, map animations, view at Paraiso, tropical vegetation, mosquito larvae, draining swamps. The Culebra Cut, Gatun Dam, Gatun Lake. Trip through the Canal, filling the locks, Gold Hill, Miraflores Lake, electric 'mule,' the Pacific Ocean." Ohio

"A scenic trip through the 'Big Ditch' with animated drawings to show the workings of the locks." Colorado

el-jh-sh-c Guide

Panama canal. 1R 16-si-loan 35-si-f-nf-loan General electric 918.6

"Interesting details of this great engineering project are shown. Working at Culebra Cut. Dredger cleaning away a landslide. Great size of locks. First boats through the locks and the rooms where water pressure is tested. Final blasting to unite waters of Atlantic and Pacific at Gamboa Diike. [Useful in] geography, commercial geography and history [classes]" Am. museum of nat. hist.

el-jh-sh

Panama canal and its historical significance. 12min 16-si-\$24 35-si-nf-\$50 1920 Soc. for visual educ. 918.6

"The results of the big engineering feat of Goethals. There are views—many of them aerial panoramas—of the jungle through which the Canal was built; the famous Culebra cut; scenes along the Panama Railway; Gatun, Panama City, Colon; the locks in operation; the Gatun spillway; the great dry dock; warships passing through the Canal, and many other...scenes." Producer

Guide

919 OCEANIA

919.14 Philippine Islands

Philippine Islands. 15min 16-si-\$24 1928
Eastman 919.14

Scenes in Manila. A sugar plantation. Gathering, husking, chopping, and drying coconuts. Growing, threshing, hulling, and polishing rice. Making abaca stalks ready for hemp
el-jh-sh Guide

919.2 Dutch East Indies

Alluring Bali. 11min 16-si-sd-\$24, \$30 35-si-sd-nf-\$65, \$80 1936 Burton Holmes 919.2

Narrated by Harlow Wilcox
"The harvesting of rice on the terraced mountainsides is an occasion for family reunions. We see both men and women at work gathering the precious grain. Ducks swim about tiny flag poles planted by their masters in the water covered fields. The native beast of burden, the buffalo; Malay game cocks; doves; and even grotesque pigs, the scavengers of Bali, add interest to the story. Physical and geographical aspects are discussed; as well as the music, religion, and racial descent of this kindly, simple hearted people." Producer

Dutch East Indies. 15min 16-si-\$24 1931
Eastman 919.2

"The markets of Java. Craftsmen show their skill in metal and leather work. Javanese women at work. Family life of the Javanese. Rural life, Sumatra, Borneo, and Celebes are located on the globe. Collecting rubber latex. Spices and rattan being loaded for export from Celebes." Indiana el-jh Guide

East Indian island. 15min 16-si-\$24 1930
Eastman 919.2

"Ball, palm-lined shore, rice terraces, road building, water buffalo, rice planting and harvesting. House building, pottery weaving, market place. A rich man's dinner, village street, festival. A wedding, native dancers, native orchestra, a Dragon play, funeral, canoe launching." Ohio el-jh Guide

919.21 Sumatra

Battak of Sumatra. (Harvard Pathe ser.) 15min 16-si-\$24 35-si-nf-\$60 1929? Films of commerce 919.21

Produced by Pathe
"A glimpse into the life of the interesting Battak peoples of northwestern Sumatra, with most of the emphasis on the Karo Battak. The beautiful valleys in which they live, their curious houses, and their primitive agricultural methods. One of the few pictures that shows the tilling of a field by a group of people using digging-sticks." Distributor
jh-sh-c

Island of yesterday. 15min 16-si-loan 35-si-nf-loan prior 1927 Goodyear 919.21

"Similar to 'Conquering the Jungle,' [class 678] but presents more fully scenic surroundings and native life on the Island of Sumatra at the 40,000-acre rubber plantation of the Goodyear Tire & Rubber Company. Habits and customs of the

people, views of quaint and little-known villages, inviting brooks and rivers, smoke-crowned volcanoes and other features are shown. Recreations of the dark-skinned natives, the fortnightly 'haribazar,' the open-air Oriental entertainment and other diversions give the spectator a 'close-up' of the light-hearted islanders. The clubhouse, a social center of Americans and Europeans, the village cutups on 'Main street' and numerous other sidelights are presented. The sanitary homes, which have replaced the thatched, floorless huts, demonstrate the progress made in living conditions within a few years." Producer
sh

Malays of Sumatra. (Harvard Pathe ser.) 15min 16-si-\$24 35-si-nf-\$60 1929? Films of commerce 919.21

Produced by Pathe
"The Malays of Sumatra live along the coast, where they trade with neighboring islands, cultivate 'wet rice' by primitive agricultural methods, and make meal with mortar and pestle. The film shows the unique and picturesque Malay houses and the elaborate Malay marriage ceremonies." Indiana jh-sh-c

919.22 Java

Bit of life in Java. (Harvard Pathe ser.) 15min 16-si-\$24 35-si-nf-\$60 1928 Films of commerce 919.22

Produced by Pathe
"In the far-off Malay Archipelago, lies Java with her backbone of volcanic mountains and her fertile valleys that hold relics of a day when she was an Indian colony. The finest of these is the Buddhist ruin of Borobudur, carved and arched in ancient manner. Now Java is a Dutch dependency, thickly populated and with many thickwalled cities. Her people are a Mongolian mixture, whose dress, cleanly habits and transportation and marketing facilities are shown in this picture." Distributor
jh-sh-c

Java—the fragrant isle. (Traveltalks) 9min 16-si-sd-\$30 35-si-sd-f-rent \$3.50 1931? Fitzpatrick 919.22

Equatorial Neptune—ceremony on shipboard. Scenes in Batavia of canals, a native laundryman and natives carrying baskets on poles. A funeral. Village scenes, including a fish market
jh-sh-c

919.31 New Zealand

Glimpse of New Zealand. 5min 16-si-\$6.86 35-si-f-nf-apply Bray 919.31

Pictures of the Wanganui River and Falls
jh

919.6 Polynesia

919.61 Samoa

Life in the South seas. 1R 16-sd-apply Bell & Howell 919.61

Photography and narration by Arthur C. Pillsbury

The happy life of the Samoans is shown in detail. Time-lapse photography is used to show the development of the coconut plant

Samoa—coco-nuts and copra. ¾R 16-si-
\$15 Burton Holmes 919.61

"Harbor of Apia, Vallima, Stevenson's home and tomb. Native climbers picking coco-nuts. Solomon Islanders making copra. Natives dancing the Siva-Siva." Indiana

919.69 Hawaii

Hawaiian islands. 15min 16-si-\$24 1928
Eastman 919.69

"Pictures Honolulu and its surroundings—the pineapple industry—native life—the sugar industry—and the seething, molten lava of Kilauea." Producer

el-jh-sh-c Guide

919.8 Arctic regions

Frontiers of the North. (Seeing Canada ser.) 10min 16-si-\$11.64 35-si-nf-apply Canadian gov't. 919.8

"Made by the Canadian Arctic Expedition of 1922, showing the journey northward from Quebec City to Baffin Bay. The voyage through ice floes, a polar bear hunt, the killing of an Arctic seal, and intimate glimpses of the Eskimos are some of its best features." Producer

"[Useful in] geography and nature study [classes]" Am. museum of nat. hist.

el-jh

Glimpses of Greenland. (Seeing Canada ser.) 6min 16-si-\$9.45 35-si-nf-apply Canadian gov't. 919.8

"Godhaven, the capital of Greenland, is a part of call for all venturers into the Baffin Bay regions. The film was made by the 1924 Canadian Arctic Expedition which visited this quaint northern outpost and secured pictures of the daily life of Eskimos. [Useful in] geography [classes]" Am. museum of nat. hist.

el-jh

Nanook of the North. 6R 16-si-apply 35-si-f-apply DuWorld 919.8

Originally produced by Pathe, 1922

With the isolation and struggle of the North as a background this film shows in authentic detail the daily life of an Eskimo family inside the igloo and the never-ceasing search for food and furs. It shows traveling by kayak in summer and dog team in winter and depicts the wrestling of a precarious living with primitive weapons from a reluctant nature

Classroom films have been prepared based upon this picture and will be found listed below under the title "Nanook, the Eskimo"

Nanook, the Eskimo. (Eskimo life ser.) 55min 16-si-apply 35-si-f-nf-apply Edwards 919.8

This is a series of 4 one reel episodes based on Robert Flaherty's "Nanook of the North", listed above, and each reel may be obtained separately (13min 16-si-apply 35-si-f-nf-apply) under the following titles: Eskimo travel; Nanook and his family; Nanook builds an igloo; Nanook the hunter. Especially planned for use with the 3d, 4th and 5th year primary grades

el Guide

Policing the Arctic. (Seeing Canada ser.) 6min 16-si-\$9.30 35-si-nf-apply Canadian gov't. 919.8

"The Canadian Arctic Expedition of 1922 locates and establishes Canada's most northerly white settlement at Craig Harbor, Ellesmere Island. The picture also gives interesting glimpses of Eskimo life in this region. [Useful in] geography [classes]" Am. museum of nat. hist.

el

92 BIOGRAPHY

Beethoven, Ludwig van

Ludwig van Beethoven. (Famous music masters ser.) 10min 16-si-sd-\$30 35-si-sd-f-rent \$3.50 1930? Fitzpatrick 92

At a musical given in honor of Mendelssohn the "Moonlight sonata," the "Country dance" and the "Minuet in G" are played. Dancers in costume perform to the music. Sound version, rather than silent, recommended for this type film

jh-sh

Bizet, Georges

Georges Bizet. (Famous music masters ser.) 10min 16-si-sd-\$30 35-si-sd-f-rent \$3.50 1930? Fitzpatrick 92

Describes the writing and selling of his opera "Carmen." Gives selections and scenes from the opera. Sound version, rather than silent, recommended for this type film

jh-sh

Boone, Daniel

Daniel Boone. (Chronicles of Am. photo-plays ser.) 3R 16-si-rent \$7.50 35-si-f-nf-rent \$12 1923 Yale 92

Adapted from "Pioneers of the old Southwest," a chronicle written by Constance Lindsay Skinner

"Portrays the extreme dangers and hardships endured by the first pioneers to strike westward and . . . links up their exploits with the border wars of the Revolutionary period. . . Depicts how in 1776 Boone is sent by Kentucky land owners as the forerunner of a new settlement. He establishes Boonesboro, but the colony faces extinction through sickness and Indian depredations. Boone is captured by the Shawnees. In 1778 a French officer in the British service directs an Indian offensive against Boonesboro. Boone escapes, races back to his settlement and successfully defends it against a bitter nine day attack." Producer

el-jh-sh Guide

Brahms, Johannes

Johannes Brahms. (Famous music masters ser.) 10min 16-si-sd-\$30 35-si-sd-f-rent \$3.50 1930? Fitzpatrick 92

Here is told the story of his only romance. It includes the music of his "Cradle song," "Hungarian Gypsy dances nos. 5 and 6" and "The blacksmith." Sound version, rather than silent, recommended for this type film

jh-sh

Burbank, Luther

Luther Burbank. 12min 16-si-\$18 1930 Eastman 92

"A part of the life of the 'plant wizard' is depicted by scenes showing cactus development, lily pollination, the development of long staple cotton, walnuts with paperthin shells, and improved varieties of wheat and oats." Producer

el-jh-sh Guide

Burns, Robert

Robert Burns. 15min 16-si-apply Inst. cinema serv. 92

Birthplace at Ayr, Scotland; "Tam O'Shanter" Inn; monument on the Doon River; pastoral scenes and love affairs pictured from his poems and songs

Chopin, Frederick

Frederick Chopin. (Famous music masters ser.) 10min 16-si-sd-\$30 35-si-sd-f-rent \$3.50 1930? Fitzpatrick 92

Dramatization of the life of George Sand and Chopin. "Polonaise militaire," "Noc-turne in 'E' flat," "Fantaisie impromptu" and the "Funeral march" accompany the scenes. Sound version, rather than silent, recommended for this type film

jh-sh

Edison, Thomas Alva

Benefactor. 30min 16-si-loan 35-si-f-nf-loan 1929 General electric 92

"The story of Thomas A. Edison's life, beginning with his early boyhood at Milan, Ohio, his birthplace, and including many interesting events in his career." Producer

Life of Thomas A. Edison. 1R 16-sd-loan 35-sd-f-nf-loan General electric 92

"Scenes depicting Mr. Edison's early life and outstanding incidents in his career. There is a musical accompaniment." Producer el-jh-sh

Thomas A. Edison. 1R 16-si-loan 35-si-f-nf-loan General electric 92

"Two score years after he invented the incandescent lamp, Edison, as the honored guest of the General Electric company, was conducted through its laboratories. This reel shows the motion pictures taken on that occasion. Such eminent scientists as Coolidge, Langmuir, Whitney and Steinmetz were likewise present." Colorado

"Useful in general science, physics and history [classes]." Am. museum of nat. hist. jh-sh

Foster, Stephen Collins

Stephen Foster. (Famous music masters ser.) 10min 16-si-sd-\$30 35-si-sd-f-rent \$3.50 1930? Fitzpatrick 92

"Story opens in a . . . music shop on the Bowery . . . in the winter of 1864. Stephen Foster, poverty stricken, wanders into this shop and offers to sell his manuscript of 'My Old Kentucky Home' for five dollars. The young lady in charge sympathizes with the unfortunate composer, and requests him to play the song. And while he . . . plays and sings the song . . . the . . . girl pictures the scenes and the people of his inspiration. . . Musical numbers played:—Old Folks at Home, Come Where My Love Lies Dreaming, Old Black Joe, O Suzana, Old Kentucky Home." Producer el-jh-sh-c

Stephen Foster. (Melody makers ser.) 11min 16-sd-\$30 Gutlohn 92

"Uncle Ned," "Come where my love lies dreaming," "My old Kentucky home," and "Old black Joe" are here presented dramatically with John Huntley, Nancy McCord and the Plantation singers amidst attractive surroundings

el-jh-sh-c

Franklin, Benjamin

Benjamin Franklin. (American statesmen ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 92

"Pictures the youth as a candle maker, how he entered Philadelphia as a poor and friendless boy, walking down the street with a loaf of bread under his arm, to the amusement of the girl who afterwards became Mrs. Franklin, his famous dinner of coarse meal pudding and water, shows the present plant of the Saturday Evening Post, the [Library company] in Philadelphia, the University of Pennsylvania, the commemorative statue erected to Franklin in Philadelphia, lastly portrays the working of the Post Office Department." Texas el-jh Guide

Hamilton, Alexander

Alexander Hamilton. (American statesmen ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 92

"Story pictures the island of Nevis, British West Indies, the birthplace of Hamilton, the dying charge of his mother to aspire to great things, his life in New York at the outbreak of the Revolution and his espousal of the colonists' cause, his service as aide to Washington, and as the first Secretary of the Treasury, his disagreement with Jefferson at cabinet meetings, his death in a duel with Aaron Burr. The Treasury Buildings of today are pictured, also the vaults with currency, and the redemption and destruction of worn or mutilated bills." Texas el-jh Guide

Alexander Hamilton. (Chronicles of Am. photoplays ser.) 3R 16-si-rent \$7.50 35-si-f-nf-rent \$12 1924 Yale 92

Adapted from "Washington and his colleagues," a chronicle written by Henry Jones Ford

"Reveals the fearless manner in which Hamilton took hold of the affairs of the confederation and established its credit. The picture also shows the inauguration of George Washington as first President of the United States, and recounts the story of the rebellion against the levy of an excise tax. Hamilton is first seen as an aide to General Washington during the War. These scenes were photographed around Washington's Headquarters at Morristown, New Jersey. In the reproduction of President Washington's inauguration permission was obtained to use the original copy of the Bible upon which George Washington took the oath of office. It is open at the same page, and the actor's hand rests upon the same chapter and verse as did Washington's." Producer sh Guide

Händel, George Friedrich

George Frederick Handel. (Famous music masters ser.) 10min 16-si-sd-\$30 35-si-sd-f-rent \$3.50 1930? Fitzpatrick 92

Händel here tells the story of his early life in Germany. "The Messiah" is heard in this film. Sound version, rather than silent, recommended for this type film

jh-sh

Hassam, Childe

Childe Hassam—artist. 15min 16-si-\$30 35-si-nf-\$60 1932 Metropolitan museum 92

"The famous American artist Childe Hassam at his summer home in Easthampton, Long Island. In this film Mr. Hassam

Hassam, Childe—Continued

is shown at his work and play, and many reproductions of his more widely known paintings are included." Producer

Withdrawn.

jh-sh-c

Jefferson, Thomas

Thomas Jefferson. (American statesmen ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 92

"Pictures William and Mary College where Jefferson was educated, shows him drafting the Declaration of Independence, and in conference with Franklin and Adams. It pictures Independence Hall, where the Declaration was signed, and the way in which the news of the Declaration was received by the people of the Colonies. The University of Virginia founded by Jefferson is shown, the Great Seal and also the State Department presided over by Jefferson as the first Secretary of State in Washington's cabinet." Texas

el-jh Guide

Lincoln, Abraham

Abraham Lincoln. 30min 16-si-\$48 35-si-nf-\$150 1933 Eastman 92

By K. R. Edwards

The life and times of the Great emancipator. Reel 1 The pioneer—Lincoln's youth; reel 2 The statesman, including the Emancipation proclamation, the Gettysburg address, Lee's surrender and Lincoln's death

el-jh-sh Guide

Abraham Lincoln. (American statesmen ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 92

Opens with scenes in a log cabin such as that in which Lincoln was born. Scenes of his early life follow and the circuit court which he covered as a country lawyer is also portrayed. The field at Gettysburg, busts by well-known artists, one depicting Lincoln upon his election to the presidency and the other just before his death are also shown. His last resting place at Springfield and the Lincoln Memorial at Washington conclude this film

jh-sh Guide

Heart of Lincoln. 75min 16-si-\$120 35-si-nf-\$300 1927 Films of commerce 92

By W. W. Young and produced by Pathe

"Story of the great President's early struggles and the hardships that befell him during the stirring days of the Civil War. A love story is developed, a romance between Northern and Southern young people, which comes to a happy ending through the self-sacrifice and big heartedness of the Martyr President." Distributor

el-jh-sh

Liszt, Franz

Franz Liszt. (Famous music masters ser.) 10min 16-si-sd-\$30 35-si-sd-f-rent \$3.50 1930? Fitzpatrick 92

Liebestraum is played. With Caroline, his first love, Liszt re-lives his life up to the time her father forbade their marriage. There is a gypsy dance to the accompaniment of the "Second Hungarian rhapsody." Sound version, rather than silent, recommended for this type of film

Livingstone, David

David Livingstone. (Great leaders ser.) 6R 16-si-rent \$8 Religious motion picture found. 92

"An authentic and well acted picture of the life of this great missionary taken in its actual African settings and portraying

his romantic marriage to Mary Moffett, his work and peril with the natives, and his lonely death." Young men's Christian assn. el-jh-sh-c

Luther, Martin

Martin Luther—his life and times. (Great leaders ser.) 8R 16-si-rent \$13 35-si-nf-rent \$30 Religious motion picture found. 92

"This biography, photographed in the actual settings where Luther himself lived and worked, is both accurate and dramatic. It shows the gradual development, in his own experience, of the conflicts and struggles out of which Protestantism was born." Young men's Christian assn.

jh-sh-c

Mendelssohn-Bartholdy, Felix

Felix Mendelssohn. (Famous music masters ser.) 10min 16-si-sd-\$30 35-si-sd-f-rent \$3.50 1930 Fitzpatrick 92

We see a girl dancing to the strains of Mendelssohn's "Spring song." Mendelssohn invites her boy accompanist to the castle and listens to him play "On wings of song." Later Mendelssohn arranges for the boy's musical training. The Mendelssohn "Wedding march" is written especially for the wedding of the two young people. Sound version, rather than silent, recommended for this type film

Roosevelt, Theodore

Roosevelt, the great scout. 15min 16-si-\$25 1929 Roosevelt house 92

Also available in a longer version (25min 35-si-nf-\$125)

"A boy of the New York streets comes to Roosevelt House with a group of Boy Scouts and after seeing a motion picture of Roosevelt illustrating the theme 'Building bodily vigor for national service'—joins the Scouts." Producer

T. R. himself. 8min 16-si-\$15 prior 1927 Roosevelt house 92

Also available in a longer version (15min 35-si-nf-\$65)

"Events in life of Theodore Roosevelt; birthplace; photograph of father and mother; inauguration as President; war activities; burial place." Iowa state college el-jh-sh-c

Rossini, Gioacchino Antonio

Gioacchino Rossini. (Famous music masters ser.) 10min 16-si-sd-\$30 35-si-sd-f-rent \$3.50 1930? Fitzpatrick 92

Incidents in the life of Rossini with music from the "Overture from William Tell," "The barber of Seville" and "Stabat mater"

Strauss, Johann

Johann Strauss. (Famous music masters ser.) 10min 16-si-sd-\$30 35-si-sd-f-rent \$3.50 1930? Fitzpatrick 92

Strauss is shown in a high class Vienna cafe playing the "Pizzicati polka" and selections from the "Gypsy baron." To the musical background of the "Blue Danube waltz" we are shown scenes along the Danube in which dancers appear. Sound version, rather than silent, recommended for this type film

Taft, Lorado

Lorado Taft—sculptor. 15min 16-si-\$30
35-si-nf-\$60 1933 Metropolitan museum 92

"The character and work of the well-known sculptor Lorado Taft, including his untiring efforts in the advancement of the study of art. His famous 'peep shows' of the old masters and his proposed museum are also shown." Producer
jh-sh-c

Verdi, Giuseppe

Giuseppe Verdi. (Famous music masters ser.) 10min 16-si-sd-\$30 35-si-sd-f-rent \$3.50 1930? Fitzpatrick 92

His life is here depicted with a musical accompaniment from "Il trovatore," "Aida" and "Traviata." Sound version, rather than silent, recommended for this type of film

Washington, George

George Washington. (American statesmen ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 92

"Old Elm at Cambridge, Massachusetts; Washington crossing the Delaware; winter quarters at Valley Forge; Washington's headquarters; Alexander Hamilton." Iowa state college

el-jh Guide

George Washington, his life and times. 60min 16-si-\$96 35-si-nf-\$300 1931 Eastman 92

Prepared at the request of the United States George Washington bicentennial commission

"The content of the films is indicated by the titles of the four reels: (1) Conquering the Wilderness; (2) Uniting the Colonies; (3) Winning Independence; (4) Building the Nation." Producer

el-jh-sh-c Guide

Webster, Daniel

Daniel Webster. (American statesmen ser.) 12min 16-si-\$24 35-si-nf-\$80 prior 1927 DeVry 92

"Birthplace; early home life; parents; his service to his country; the reply to Hayne; extracts from Bunker Hill address; Statue of Liberty. A very fine film." Iowa state college

el-jh Guide

929.9 FLAGS

Hats off. 1R 16-si-apply 35-si-nf-apply Soc. for visual educ. 929.9

"From Betsy Ross and George Washington to Roosevelt and General Pershing, America's heroes come to life on the screen to teach a lesson in flag etiquette." Missouri jh Guide

Story of the Star spangled banner. 15min 16-si-\$24 35-si-nf-\$60 1927 Films of commerce 929.9

Produced by Pathe

"The highlights in the career of Francis Scott Key from boyhood to the war of 1812. His imprisonment on a British frigate; also the all-night battle of Fort McHenry, of which Key was an agonized spectator. When dawn shows the American flag to be still waving over the fort, Key gives poetic expression to his relief by writing the national anthem." Distributor
el-jh-sh

930-999 HISTORY

932 EGYPT

Daily life of the Egyptians—ancient and modern. 26min 16-si-\$60 35-si-nf-\$120 prior 1927 Metropolitan museum 932

"The Nile, which ages ago fathered one of the earliest civilizations, is still the source of life for all those who dwell in its great valley. The modern peasant is seen at the various tasks of daily life, and from these the spectator is carried back 3,000 years and more to the ancient pictures which show the same tasks being performed in just the same way." Producer
jh

Digging into the past. 30min 16-si-\$60 35-si-nf-\$120 1931 Metropolitan museum 932

"The locality and activities of the Egyptian Expedition maintained by The Metropolitan Museum of Art near Luxor. The magnitude and difficulties of this work and its historic and archaeological importance are presented to the spectator in convincing manner. Opening a tomb, unwrapping a mummy, preserving a coffin, unrolling a papyrus, and numerous other incidents make a film of unusual interest." Producer
sh-c

Temples and tombs of ancient Egypt. 26min 16-si-\$60 35-si-nf-\$120 1925 Metropolitan museum 932

"Some of the more striking monuments left to posterity by the mighty civilization which flourished so long ago in the valley of the Nile, the pyramids and Sphinx of Gizeh, rock-hewn Abu Simbel, and the many temples of the ancient capital, Thebes, are shown." Colorado

942.03 Great Britain—History—
1154-1399

In the days of chivalry. 12min 16-si-\$27 35-si-f-nf-\$70 prior 1927 Acad. of motion picture arts & sci. 942.03

Price of this film has been reduced because negative is worn

"An educational adaptation of the film 'Robin Hood' in which Douglas Fairbanks created his wonderful role. The film was arranged by a group of California educators cooperating with the Academy of Motion Picture Arts and Sciences." Iowa state college

"This film will be found to have a wide applicability in English literature and in medieval history. In American history there is a decided value to the motion picture in its graphic portrayal of the old-world background. In literature the film will be found to introduce vitality into the study of 'Ivanhoe,' 'Chaucer,' and 'The Idylls of the King.'" Wisconsin Guide

943 Germany

Noerdlingen—annum 1634. 1R 16-si-sd-loan German tourist 943

"Old 14th century fortifications of Noerdlingen with their moats, ramparts, and towers in perfect preservation, are shown in this film. A pageant is enacted depicting the Swedish occupation 1634." Producer
jh-sh

949.4 Switzerland

William Tell. 105min 16-sd-rent \$14 Bell
& Howell 949.4

Hans Marr plays the name part and Conrad Veidt is the vicious Gessler. The noted European boy actor, Detlef Willecke, portrays the heroic part of William Tell's son. English supervision by Manning Haynes and musical score by Herbert Windt

"Produced . . . in the high regions of the Swiss Alps, with an authentic background of architecture, character, and costume. Many of the sturdy old buildings take the same grim part in the picture that they played in the real Swiss revolt of the 14th century. Dr. F. Lang and Dr. Gessler of the Swiss National Museum in Zurich spent months of historical research in recreating . . . the details of life and customs in the days of William Tell." Producer

970.1 INDIANS

Arts and crafts. (American Indian no.7)
1R 16-si-apply 35-si-nf-apply Religious
motion picture found. 970.1

"A detailed study of the Indian arts of yesterday and today . . . Closeups reveal actual techniques and processes used in weaving, basketry, beadwork and many other crafts." Producer

el-jh-sh-c

Cheeka, an Indian boy. (Indian life ser.)
40min 16-si-apply 35-si-f-nf-apply 1936
Edwards 970.1

This is a series of 3 one reel subjects based on Burden and Chanler's "Silent enemy", listed in class F, and each reel may be obtained separately (13min 16-si-apply 35-si-f-nf-apply) under the following titles: Cheeka and the caribou—(Winter); Cheeka's canoe; Cheeka's home—(Summer). They have been especially planned for use with the 3d, 4th and 5th year primary grades

el Guide

Child life. (American Indian no.8) 1R
16-si-apply 35-si-nf-apply Religious
motion picture found. 970.1

"The life of the Indian child in his reservation home and in his school. . . Especially recommended for children's groups." Producer

el-jh-sh-c

Government education. (American Indian no.5) 1R 16-si-apply 35-si-nf-apply
Religious motion picture found. 970.1

"A stimulating interpretation of government effort to fit Indian youth, through education and practical training, for present day life." Producer

el-jh-sh-c

Government service and its problems. (American Indian no.3) 1R 16-si-apply
35-si-nf-apply Religious motion picture found. 970.1

"Reservation life in many of its aspects, and some of the more significant questions arising on government administration." Producer

el-jh-sh-c

His contribution to modern civilization. (American Indian no.9) 1R 16-si-apply
35-si-nf-apply Religious motion picture found. 970.1

"Presenting a new aspect of the American Indian, in his agricultural, artistic and cultural contributions to contemporary life." Producer

el-jh-sh-c

How he earns a living. (American Indian no.6) 1R 16-si-apply 35-si-nf-apply
Religious motion picture found. 970.1

"From ancient crafts, through agricultural pursuits, to training for modern industrial life, we follow the Indian in his effort toward economic independence." Producer

el-jh-sh-c

Indian tribal customs and village life. 55min 16-si-apply 35-si-f-nf-apply 1936
Edwards 970.1

This is a series of 4 one reel subjects based on Burden and Chanler's "Silent enemy", listed in class F, and each reel may be obtained separately (13min 16-si-apply 35-si-f-nf-apply) under the following titles: Chetoga—chief of the Ojibways; Dagwan—the medicine man; Indian hunting grounds; Life in an Indian village. This series was planned especially for use with upper grades

jh-sh Guide

Indians of the painted desert. 5min 16-si-
\$6.22 35-si-f-nf-apply Bray 970.1

"Costumes, customs, activities and character studies of the Navajo Indians of New Mexico." Producer

Little Indian weaver. (Children of all lands ser.) 15min 16-si-\$24 35-si-nf-\$60
1929 Films of commerce 970.1

By Madeleine Brandeis and produced by Pathe

"Bah lives on a Navajo Indian reservation in California and learns from her mother the art of weaving in which the women of her tribe are skillful. Bah wants the doll of the white child more than she wants anything in the world and her mother tells her she may weave a blanket to exchange for the coveted treasure at the Trading Post. When the Trader refuses to take the blanket, darkness and despondency descend upon the little Indian girl but her friend, the Trader's son buys the doll for her with his savings. After this act of kindness, the Navajos accept the white boy as their friend and teach him many interesting bits of Indian lore and customs." Distributor

el-jh

Looking forward. (American Indian no.10) 1R 16-si-apply 35-si-nf-apply Religious
motion picture found. 970.1

"A recapitulation of his problems and a consideration of the Indian's future. A glimpse of the young leaders upon whom that future depends." Producer

el-jh-sh-c

Mission influences. (American Indian no.4) 1R 16-si-apply 35-si-nf-apply
Religious motion picture found. 970.1

"A portrayal of the outstanding evangelical and educational work being done among the Indians by certain of our churches." Producer

el-jh-sh-c

Pueblo dwellers. 15min 16-si-\$24 1931
Eastman 970.1

"Pictures the home life of the Pueblos of New Mexico, showing an Indian village, adobe dwellings, method of planting corn, squaws preparing tortillas, baking in an outdoor oven, basket-weaving, pottery-making, ceremonial dances, and a government Indian school." Producer
el-jh Guide

Survivals of primitive home life. (American Indian no.2) 1R 16-si-apply 35-si-nf-apply Religious motion picture found. 970.1

"Some interesting domestic methods and customs which have been handed down through succeeding generations to the present." Producer
el-jh-sh-c

When the white man came—and after. (American Indian no.1) 1R 16-si-apply 35-si-nf-apply Religious motion picture found. 970.1

"Picturing the tribal and cultural distribution of the primitive Indian, his life, and the influence of the white man upon it." Producer
el-jh-sh-c

973 UNITED STATES

973.1 Discovery

Columbus. (Chronicles of Am. photoplays ser.) 60min 16-si-rent \$7.50 35-si-f-nf-rent \$12 1923 Yale 973.1

Adapted from "The Spanish conquerors," a chronicle written by Irving Berdine Richman

"The 'mad Italian' is first seen at the Court of King John II of Portugal in 1485. On discovering the duplicity of this monarch he leaves Portugal and after years of arduous endeavor at length secures a hearing before Ferdinand and Isabella of Spain. At first rebuffed, he is granted a second hearing through the intercession of the learned priest, Juan Perez, and finally obtains Isabella's support. The departure of his tiny fleet from Palos, his dangers and doubts while on the high seas and his eventual triumph in landing upon Watling Island, October 12, 1492, are all depicted." Producer
el-jh Guide

English settlements in North America. 1R 16-si-apply 35-si-nf-apply Soc. for visual educ. 973.1

"The first English settlements are visualized. As Dutch and Swedish settlements are absorbed, the original names fade out and give place to New York, Albany and Wilmington. The screen pictures the substantial homes and mills that were built, and a contrast is developed between the colonizing of the English and the mere exploration of the French. The Appalachian barrier is portrayed. The map traces the one easy pathway to the west, and shows how the French blocked the way." Producer
Guide

French explorations in North America. 1R 16-si-apply 35-si-nf-apply Soc. for visual educ. 973.1

Traces main routes of the French explorers, traders, and missionaries by animated lines upon a map. The country is visual-

ized through scenics. Shows how the French were blocking the westward spread of English colonies
sh Guide

Jamestown. (Chronicles of Am. photoplays ser.) 60min 16-si-rent \$7.50 35-si-f-nf-rent \$12 1923 Yale 973.1

Adapted from "Pioneers of the Old South," a chronicle written by Mary Johnston

The Jamestown settlement in 1612 revealing the daily life of the colonists, confronted with the ever-present menace of the Indians whose hostility is aggravated in part by Spanish intrigue. The capture of Pocahontas, her marriage to John Rolfe, and the end of Powhatan's war of extermination
el-jh Guide

973.2 Colonial period

Eve of the Revolution. (Chronicles of Am. photoplays ser.) 45min 16-si-rent \$7.50 35-si-f-nf-rent \$12 1924 Yale 973.2

Adapted by George Pierce Baker of Yale university from a Chronicle of the same name, written by Carl Becker

"Scenes incident to the 'Stamp Act,' 'Taxation Without Representation,' the 'Boston Massacre,' the 'Boston Tea Party,' the Salem Assembly, the famous rides of Paul Revere and William Dawes, Jr., the sharp military clashes at Lexington and Concord and the retreat of the British." Producer
el-jh Guide

Gateway to the West. (Chronicles of Am. photoplays ser.) 45min 16-si-rent \$7.50 35-si-f-nf-rent \$12 1924 Yale 973.2

Adapted from "The conquest of New France," a chronicle written by George M. Wrong

"Dramatization of that heroic portion of our national epic when France, working south from Canada, and England, pressing westward from her seaboard colonies, began the inevitable conflict over the vast wilderness west of the Alleghenies. The film presents George Washington as the young Colonel who, sent by Governor Dinwiddie of Virginia to lodge a protest with the French, assumed command of the expedition upon the death of his ranking officer and made his courageous stand at Fort Necessity; an engagement which opened the eyes of England's ministers to the seriousness of the French menace in America." Producer
el-jh Guide

Peter Stuyvesant. (Chronicles of Am. photoplays ser.) 45min 16-si-rent \$7.50 35-si-f-nf-rent \$12 1924 Yale 973.2

Adapted from "Dutch and English on the Hudson," a chronicle written by Maude Wilder Goodwin

"Presentation of the events from 1653 to 1664 through which Dutch New Amsterdam became English New York. Life in the picturesque colony; the frivolity of the court of Charles II, King of England; the decision to send a fleet to New Amsterdam; the growing revolt of Stuyvesant's citizens against his autocratic administration; the arrival of the English fleet; Stuyvesant's determination to resist; and his ultimate surrender. Professor Dixon Ryan Fox of Columbia University wrote the script and supervised the production of this subject." Producer
el-jh Guide

Pilgrims. (Chronicles of Am. photoplays ser.) 45min 16-si-rent \$7.50 35-si-f-nf-rent \$12 1923 Yale 973.2

Adapted from "The fathers of New England," a chronicle written by Charles M. Andrews

"The struggle for religious freedom as typified by the story of the Pilgrims. Beginning with the experiences of the Separatists in Scrooby, England, the film traces their migration to Holland in 1607-08, and, twelve years later, the departure of the devout band for America. It depicts the voyage of the Mayflower, the landing on Plymouth Rock, the hardships and sufferings during the first winter and the courageous refusal of the Pilgrims to return to England. In the scene showing the signing of the Mayflower Compact, the document used is reproduced from a copy of the original made at the time by William Bradford." Producer

el-jh-sh Guide

Puritans. (Chronicles of Am. photoplays ser.) 45min 16-si-rent \$7.50 35-si-f-nf-rent \$12 1924 Yale 973.2

Adapted from "The fathers of New England," a chronicle written by Charles M. Andrews

"Contrasts the economic background of the Massachusetts Bay Colony and life in early New England (1630), with the court of King Charles I. It reveals the political moves behind Thomas Morton's effort to discredit the Puritans in England and to bring about the revocation of their charter. It traces the rise of dissension within the colony, including the departure of Roger Williams, and portrays the capable leadership of Governor Winthrop in successfully bringing the colony through this dual crisis in its affairs. The elaborate scene showing the Council Chamber at Whitehall is a true reproduction of a portion of the famous palace." Producer

el-jh Guide

Struggle of French and English for North America. 1R 16-si-apply 35-si-f-nf-apply Soc. for visual educ. 973.2

"The main campaign movements in the French and Indian War are covered. Animated maps point out the situation that confronted the English; the French forts controlling the Mississippi Valley; the claims of the English to the western lands, and the three routes by which the French lines could be pierced. Maps and motion picture views visualize the scenes of the struggle." Producer

Guide

Wolfe and Montcalm. (Chronicles of Am. photoplays ser.) 45min 16-si-rent \$7.50 35-si-f-nf-rent \$12 1924 Yale 973.2

Adapted from "The conquest of New France," a chronicle written by George M. Wrong

"Recounts the work of William Pitt, England's great war minister. In detail, the film explains the situation in world politics which prompted Pitt to send an army overseas in command of General James Wolfe. It reveals successively, the situation in New France, with General Montcalm hampered by the jealousy of Vaudreuil, Governor General; the military strategy of Wolfe in his attack on Quebec; Montcalm's desperate defence; and the clash on the Plains of Abraham. Locations over an area of two hundred miles were investigated in order to find an unhampered terrain corresponding physically to the

original appearance of the Plains of Abraham. The massive wall and the St. Louis gate of Quebec, shown in the illustration, were reconstructed to exact scale." Producer el-jh Guide

973.3 Revolution. Confederation

Declaration of independence. (Chronicles of Am. photoplays ser.) 45min 16-si-rent \$7.50 35-si-f-nf-rent \$12 1924 Yale 973.3

Adapted from "The eve of the Revolution," a chronicle written by Carl Becker

"Account of the efforts of a small group of patriots to bring about a unanimous vote in favor of independence reveals clearly the three outstanding attitudes of public opinion, as represented by the Tories, the Conservatives and those in favor of absolute independence. . . A reproduction of the interior of Independence Hall, and a huge setting depicting an entire street in Philadelphia as it appeared in 1776." Producer el-jh Guide

Vincennes. (Chronicles of Am. photoplays ser.) 45min 16-si-rent \$7.50 35-si-f-nf-rent \$12 1923 Yale 973.3

Adapted from "The Old Northwest," a chronicle written by Frederic Austin Ogg

"Story of the struggle for supremacy along the frontier when the American Colonies were fighting for independence in the east. Hamilton, British Governor General of the Northwest, occupies Vincennes to curb the influence of westward-spreading pioneers. George Rogers Clark, to rid the country of Hamilton and his Indian allies, strikes out from Kentucky and reaches Kaskaskia before cold weather in 1779. Hamilton, protected by an impenetrable wilderness, feels secure until spring. Grasping his opportunity, Clark presses across the 'Drowned Lands' and captures Vincennes, breaking the influence of the British over the Indians and winning for the Republic the vast territory from which later were formed the states of Ohio, Indiana, Illinois, Michigan, and Wisconsin." Producer

el-jh Guide

War of the American Revolution. 1R 16-si-apply 35-si-f-nf-apply Soc. for visual educ. 973.3

Animated maps show the preliminary moves—Paul Revere's ride, Lexington, Concord, and Bunker Hill, with pictures of monuments marking where the Minute men stood. The American attempt to capture Canada and the British attempt to isolate New England. The capture of Vincennes, and the southern campaign which ended in the surrender of Cornwallis

Guide

Yorktown. (Chronicles of Am. photoplays ser.) 45min 16-si-rent \$7.50 35-si-f-nf-rent \$12 1924 Yale 973.3

Adapted from "Washington and his comrades in arms," a chronicle written by George M. Wrong

"The progress of the War of Independence between January and October, 1781. The hardships and suffering of the American troops; the problems confronting General Washington due to discouragement and interference; the international aspect of the campaign of 1781; the aid rendered by the French leaders; the march of the

Yorktown—Continued

American army south to Yorktown; the arrival of the French fleet; the complete outwitting of Clinton and Cornwallis; the battle of Yorktown, and the surrender of Cornwallis are all . . . depicted." Producer el-jh-sh Guide

973.4 Constitutional period

Breaking through the Appalachians. 1R 16-si-apply 35-si-nf-apply Soc. for visual educ. 973.4

A visualization of the westward movement and the three main paths that were followed in breaking through the Appalachians Jh-sh Guide

Louisiana purchase and Lewis and Clark expedition. 1R 16-si-apply 35-si-nf-apply Soc. for visual educ. 973.4

Shows causes and immediate results of the Louisiana purchase in 1803. Traces the Lewis and Clark expedition by animated map and there are motion pictures of the country Guide

Settling the Ohio valley. 1R 16-si-apply 35-si-nf-apply Soc. for visual educ. 973.4

"The problems which the pioneers were called upon to face are clearly visualized. Stockaded settlements are pictured, showing the need for military defense against Indian attacks, and motion pictures show types of early homes, mills and stores. Animated maps visualize the Northwest Territory, the government survey that divided the new domain into ranges, townships and sections, and the roads followed by the various 'companies' that settled the territory before 1790. There are pictures of the scenes along the Mississippi and of a typical river flatboat." Producer el-jh Guide

973.6 Period of 1845-1861

Trans-Mississippi trails. 1R 16-si-apply 35-si-nf-apply Soc. for visual educ. 973.6

"Portrays the occupation of the trans-Mississippi region. Indians were subdued, the Erie Canal linked the Great Lakes with the Hudson, and thousands of immigrants went directly to the Central Plains. Large groups pushed beyond the Mississippi and established farms and ranches as far west as the Rockies. The reel shows something of the geographical location of the various routes, the agricultural demands, and the political lines of the Missouri Compromise. The settlement and annexation of Texas, the Mexican War campaigns, and the addition of New Mexico, California, and the Gadsden Purchase are indicated by animated maps." Producer Jh Guide

973.7 Civil war

Dixie. (Chronicles of Am. photoplays ser.) 45min 16-si-rent \$7.50 35-si-f-nf-rent \$12 1924 Yale 973.7

Adapted from "The day of the confederacy," a chronicle written by Nathaniel W. Stephenson

"The stately mansion seen in the film is on the original Rutledge Plantation, located on the Santee River in South Carolina.

The negro quarters are on the famous old Hermitage Plantation, not far from Savannah. Amid these actual settings are depicted the experiences of a typical southern family behind the lines, from the time its men ride off to the War until the final months of the struggle. The film reveals especially the heroic part played by the women of the Confederacy and the position and attitude of the slaves. It ends with a re-creation of Appomattox when General Lee, representing the unbroken spirit of the South, meets with General Grant and terms of surrender are arranged." Producer

el-jh-sh Guide

973.9 20th century

This is America. 55min 16-sd-rent \$12 Bell & Howell 973.9

Record of our country and our people during the past two decades. Was released under title "Mad age" by Beckman film corporation

Gilbert Seldes, author and columnist, selected the sequences from millions of feet of newsreel film. Dr. Hugo Riesenfeld wrote the symphonic musical accompaniment. Alois Havrilla, famous radio announcer, delivers the descriptive narrative by Mr. Seldes

el-jh-sh-c

978 Western states

Frontier woman. (Chronicles of Am. photoplays ser.) 45min 16-si-rent \$7.50 35-si-f-nf-rent \$12 1923 Yale 978

Adapted from "Pioneers of the Old Southwest, a chronicle written by Constance Lindsay Skinner

"Story of the settlement of Watauga, in the mountains of Tennessee, in 1780. Practically all of Watauga's fighting men had ridden with John Sevier against Major Patrick Ferguson, Tory terrorist of the frontier. With every trader bringing fearful tales of Indian uprisings the courageous women carried on alone and refused to recall their warriors, who, thus freed, fought and won the battle of King's Mountain, a victory that was a prelude to the defeat of Cornwallis." Producer

el-jh Guide

Overland to California. 15min 16-si-\$24 1930 Eastman 978

"Evolution of westward highways, from pioneer days to present-day air routes. The Mormon Temple and Tabernacle in Salt Lake City are shown, as are Great Salt Lake and salt operations carried out along its shores. The trail continues westward from Sparks, Nevada, passing through the Sierra Nevadas, the Sacramento Valley, and the city of Sacramento to San Francisco and the famous Golden Gate." Iowa univ.

Guide

979.4 California

Golden gate. 15min 16-si-\$24 1928 Eastman 979.4

Views of the Golden gate, piers and docks, ferries, the business section of Oakland, and the University of California stadium. An airplane view of the heart of San Francisco. Subsequent scenes show an old-fashioned cable car, a Chinese telephone exchange, the residential section, and Golden gate park. Scenes at

Golden gate—Continued

the waterfront depict the unloading of pineapples, bananas, coffee, copra, hemp and silk. An animation shows shipping lanes to Alaska, the Orient, Australia, the Panama Canal, and South America. Exports for the Orient are loaded into ships
Guide

F PHOTOPLAYS

Feature or recreational pictures

The material classed here is that which is of more interest for its story value than for the subject matter. It corresponds to the type of material classed in fiction in libraries

Black Beauty. 7R 16-sd-\$280 1933 Gut-lohn F

Based on Anna Sewell's book and was originally produced by Monogram

Fun at the seashore. 14min 16-si-apply 1933 Caldwell F

"Four inland children at the seashore, ages 12, 10, 6, and 3. They watch the waves, play in the ocean, dig in the sand, gather shells, pick coconuts, watch the boats, see the big seaplanes. Purpose to give inland children some adequate concept of the ocean. Titled simply for primary reading. Experimental." Producer el

Great raccoon hunt. 2R 16-sd-apply 1933 Bell & Howell F

An amusing story of a raccoon, a skunk, two boys, a couple of dogs and incidentally some rabbits, chickens and an owl. The vocabulary is informal and the picture recreational altho containing good shots of both the skunk and the raccoon
el-jh

Heidi of the Alps. 2R 16-si-\$30 Inst. cinema serv. F

"Johanna Spyri's immortal story of child life in Switzerland." Kansas

Hunting ground of Hiawatha. 1R 16-si-apply Bell & Howell F

Based on the well-known poem by Longfellow

Lady of the Lake. 42min 16-sd-\$125 35-si-f-rent \$15 1930 Fitzpatrick F

"A five reel feature based on the immortal poem by Sir Walter Scott and produced in the Highlands of Scotland, the actual locale of the poem—musically synchronized with Nathaniel Shilkret's symphony orchestra and a vocal chorus of forty voices." Producer Jh-sh

Lost world. 5R 16-si-apply Kodascope F

Produced by First national, from a novel by Sir Arthur Conan Doyle, featuring Lewis Stone, Bessie Love, Lloyd Hughes and Wallace Beery

"Story of a lost world in heart of South America, visited by a party of Englishmen, who see huge animals of prehistoric age. They bring one back to England, as proof of their story. It escapes and swims down Thames River to the ocean. This picture combines scientific reproduction of former ages with modern romance in a thrilling, stupendous spectacle of interest to every spectator." Minnesota

"For upper grades and junior high school." California Jh

Lot in Sodom. 3R 16-sd-apply 35-sd-f-apply 1933 DuWorld F

Produced by J. Sibley Watson and Melville Webber and selected by the National board of review as one of the ten best pictures of the year

Man without a country. 8R 35-si-nf-apply Inst. cinema serv. F

Based on Edward Everett Hale's story "Photographed in the exact historical location. Naval forces by permission of the United States Naval Department. . . Characterizations of Aaron Burr, Thomas Jefferson, Alexander Hamilton, Stephen Decatur and others." Distributor

Milady's escapade. 21min 16-sd-rent \$3 1934 Bell & Howell F

Tabloid presentation of Flotow's opera "Martha"
el-jh-sh-c

Mother Goose rhymes. 1R 16-si-\$10 Inst. cinema serv. F

"An interesting nursery cartoon in which are included the fables of Hickory Dickory Dock, Humpty Dumpty, and Hey Diddle Diddle." Wisconsin

Pêcheurs d'islande. 1R 16-sd-apply 35-sd-f-apply DuWorld F

From the book by Pierre Loti. French dialogue and English dialogue titles

Pied Piper of Hamelin. 2R 16-si-apply Edited pictures F

A picturization of Robert Browning's famous poem el

Pony express. 60min 16-si-apply Kodascope F

Produced by Paramount
"Founding of the Pony Express and thrills of the first trip westward bearing news of Lincoln's election." California
"Vivid story of the days when California was hesitating between North and South." Wisconsin el-jh-sh

Robin Hood, junior. 3R 16-si-apply Kodascope F

Featuring Frankie Lee and Peggy Cartwright
"Juvenile interpretation of the story of medieval chivalry and romance. Frankie, in a dream, pictures himself as the bold highwayman. An excellent story both for juveniles and grown-ups. Good photography, lots of action, and good, clean humor." Minnesota

Robinson Crusoe. 4R 16-si-apply Edited pictures F

Based on Daniel Defoe's classic el

Silent enemy. 6R 16-sd-apply 35-sd-f-nf-apply 1934 Edwards F

Produced by W. Douglas Burden, research associate of the American museum of natural history

Also obtainable in a 7R version (16-si-apply 35-si-f-nf-apply)

"There is a stamp of sincerity and authenticity. There is a generous supply of fun in this cleverly arranged film and there are a number of thrilling episodes. The climax is more impressive and more stirring than has been seen in any other picture of its ilk. That is when the caribou herd comes in to view. This sight has never been equaled." N.Y. Times

Silent enemy—Continued

Classroom films have been prepared based upon this picture and will be found in class 970.1 under the titles "Cheeka, an Indian boy" and "Indian tribal customs and village life"

Spectre. 13min 16-si-\$30 35-si-nf-\$60 Metropolitan museum F

"This Colonial fantasy tells of a malign apparition which appears to the superstitious eyes of a seventeenth-century New England family. According to the belief of the age it is exorcised by the crossing of water and the reading of the Bible. For the backgrounds of the major scenes rooms in the American Wing were used." Producer

Withdrawn.

el-jh

Trip to the farm. 12min 16-si-apply 1931? Caldwell F

"First-grade children from a city elementary school visit farms for first-hand information. They see dogs, cats, sheep, goats, horses, cows, gather eggs, see a

tractor plowing, feed the chickens, and other work of the farm. Film is titled in simple phrases and large type for first-grade reading. Experimental." Producer el

'Twas the night before Christmas. 15min 16-si-\$12 Hollywood film enterprises F

Based on Clement C. Moore's famous poem el

Vasantasena. 27min 16-si-\$60 35-si-nf-\$120 1930 Metropolitan museum F

Produced by the School of fine arts, Pratt institute

"A careful study of the paintings of India exhibited in the Museum preceded the production of this film, which is based on an incident in a tenth-century Indian story. The scenery, painted in the 'flat' manner of Indian miniatures, and the costumes were designed and made by Pratt Institute students, who were also the actors." Producer

Withdrawn.

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Directory of Producers

This list consists of producers or authorized distributors only. Film users are cautioned to be explicit as to the width of film desired and if 35mm film is ordered especial care must be taken to designate safety or nitrate film, indicated in this catalog by the symbols "nf" and "f" respectively.

- Acad. of motion picture arts & sci. Academy of motion picture arts and sciences, 7046 Hollywood Blvd, Hollywood, Cal.
Price of this film has been reduced because the negative is worn
- Aetna. Aetna life insurance company, 151 Farmington Av, Hartford, Conn.
- Am. brass. American brass company, Waterbury, Conn.
Will consider selling prints although not usual practice
- Am. dental assn. American dental association, 212 E. Superior St, Chicago, Ill.
- Am. heart assn. American heart association, inc., 50 W. 50th St, New York City
- Am. inst. of steel construction. American institute of steel construction, inc., 200 Madison Av, New York City
- Am. osteopathic assn. American osteopathic association, 430 N. Michigan Av, Chicago, Ill.
- Am. social hygiene assn. American social hygiene association, inc., 50 W. 50th St, New York City
- Baker. R. J. Baker, 1911 Kalakaua Av, Honolulu
- Bausch & Lomb. Bausch and Lomb optical company, 635 St Paul St, Rochester, N.Y.
Will sell prints at exact cost to themselves
- Belding Hemingway Corticelli, 119 W. 40th St, New York City
- Bell & Howell. Bell and Howell company, 1801 Larchmont Av, Chicago, Ill.
- Borden. Borden's farm products company, inc., 110 Hudson St, New York City
- Boulder dam. Boulder dam service bureau, Boulder theater building, Boulder City, Nevada
- Bray. Bray pictures corporation, 729 Seventh Av, New York City
Write for address of exchange nearest you
- Bur. of mines. U.S. Department of interior, Bureau of mines experiment station, 4800 Forbes St, Pittsburgh, Pa. (R. A. Wood, in charge)
Write for address of exchange nearest you
- Bur. of reclamation. U.S. Department of the interior, Bureau of reclamation, Washington, D.C.
Lecture of about 3,500 words has been prepared to accompany all except those in the "Drainage" set
- Burton Holmes. Burton Holmes films, Library dept., 7510 N. Ashland Av, Chicago, Ill.
- Caldwell. L. H. Caldwell, Gardiner elementary school, Wichita, Kan.
- Canadian gov't. Canadian government motion picture bureau, Ottawa, Ontario, Canada
Write for address of exchange nearest you. These films may be purchased if desired
- Canadian nat. ry. Canadian national railways motion picture library, 673 Fifth Av, New York City
- Castle. Castle films, R.C.A. bldg., Rockefeller center, New York City
- Cereal soaps. Cereal soaps company, inc., 334 E. 27th St, New York City
Loan film to schools and institutions only. Will not sell or rent
- Chicago, Rock Island and Pacific railway company, Room 723, LaSalle St station, Chicago, Ill.
- Chrysler. Chrysler sales corporation, 125 West End Av, New York City
- Church. Frank R. Church films, 829 Harrison St, Oakland, Cal.
Write for address of exchange nearest you
- Cocking. Floyd W. Cocking, Roosevelt junior high school, San Diego, Cal.
- Cunard. Cunard white star line, Advertising dept., 25 Broadway, New York City
Films of this company are not available for classroom use. They are sent to adult groups only
- Dairymen's league. Dairymen's league cooperative assn., inc., 11 W. 42d St, New York City
- Deimer. M. E. Deimer photographic laboratory, Madison, Wis.
- De Laval. De Laval separator company, 165 Broadway, New York City
- DeVry. Herman A. DeVry, inc., 1111 Center St, Chicago, Ill.
Correspondence is invited regarding sound versions of their films
- Du World. Du World pictures, inc., 729 Seventh Av, New York City
Films are primarily for rent but will sell restricted number of prints of some
- Dynamic. Dynamic pictures, 729 Seventh Av, New York City
- Eastman. Eastman kodak company, Teaching films division, Rochester, N.Y.
- Edited pictures. Edited pictures system, inc., 330 W. 42d St, New York City
Primarily a rental distributor but have access to or own some of the negatives

DIRECTORY OF PRODUCERS

- Edwards. Edwards productions, 729 Seventh Av, New York City
- Erpi. Erpi picture consultants, inc., 250 W. 57th St, New York City
- Field & stream, 578 Madison Av, New York City
Films are obtained by subscribing to the Field and stream magazine
- Film classic exchange. F. C. pictures corporation, 505 Pearl St, Buffalo, N.Y.
- Films of commerce. Films of commerce company, inc., 35 West 45th St, New York City
- Fitzpatrick. FitzPatrick pictures, inc., 729 Seventh Av, New York City
- Ford. Ford motor company, Department of photography, 3674 Schaefer Rd, Dearborn, Mich.
- Fruit of the loom. Fruit of the loom mills, 715 Hospital trust bldg., Providence, R.I.
- Gaumont British. Gaumont British picture corporation of America, 1600 Broadway, New York City
Write for address of exchange nearest you
- General electric. General electric company, Visual instruction section, Publicity dept., 1 River Rd., Schenectady, N.Y.
16mm films may be secured from the New York office, 570 Lexington Av, as well as from Schenectady
- German tourist. German tourist information office, 665 Fifth Av, New York City
- Goodyear. Goodyear tire & rubber company, inc., Motion picture dept., Akron, O.
- Grace line, 10 Hanover Sq, New York City
- Gutlohn. Walter O. Gutlohn, inc., 35 W. 45th St, New York City
Write for address of exchange nearest you
- Harvard. Harvard film service, Cambridge, Mass.
- Haselton. Guy D. Haselton, 7901 Santa Monica Blvd, Hollywood, Cal.
- Henry st. Henry street visiting nurse service, 99 Park Av, New York City
- Hercules. Hercules powder company, inc., Advertising dept., Wilmington, Del.
- Hill. Dr. David B. Hill, First national bank bldg., Salem, Ore.
- Hollywood film enterprises. Hollywood film enterprises, inc., 6060 Sunset Blvd., Hollywood, Cal.
- Hudson. Hudson college of commerce and finance, Chamber of commerce bldg., Jersey City, N.J.
- Imperial distributing corp. Imperial distributing corporation, 729 Seventh Av, New York City
- Inst. cinema serv. Institutional cinema service, inc. 130 W. 46th St, New York City
- Japan tourist. Japan tourist bureau, 551 Fifth Av, New York City
- John Hancock. John Hancock mutual life insurance company, Boston, Mass.
- Kerr. Kerr glass manufacturing corporation, Sand Springs, Okla.
Apply at above address if you live east of the Rockies; if you live west of the Rockies apply 718 Title insurance bldg., Los Angeles
- Kodascope. Kodascope libraries, inc. 33 W. 42d St, New York City
Write for address of exchange nearest you
- McCrum. Dr. Thomas B. McCrum, 4144 Charlotte St, Kansas City, Mo.
- Melville. Melville shoe corporation, Advertising dept., 555 Fifth Av, New York City
- Metropolitan life. Metropolitan life insurance company, 1 Madison Av, New York City
- Metropolitan museum. Metropolitan museum of art, Fifth Av & 82d St, New York City
Also have the Yale chronicles of America photoplays series for circulation in the public schools of New York city only
- Museum of modern art, 485 Madison Av, New York City
- Nat. dairy council. National dairy council, 221 N. LaSalle St, Chicago, Ill.
- Nat. park serv. U.S. Department of interior, National park service, Washington, D.C.
- Nat. safety council. National safety council, 20 N. Wacker Drive, Chicago, Ill.
- Nat. soc. for the prevention of blindness. National society for the prevention of blindness, inc., 50 W. 50th St, New York City
The film loaned by this organization may be bought from Eastman
- Nat. tuberculosis assn. National tuberculosis association, 50 W. 50th St, New York City
Requests should be directed to state and local tuberculosis associations
- Navy recruiting serv. U.S. Navy recruiting bureau, Officer in charge, Federal bldg., Washington & Johnson Sts, Brooklyn, N.Y.
Will not send for private and home protection and only to organizations having good equipment and experienced operators. Requests for films should be addressed to the Officer in charge of the nearest U.S. Navy recruiting service
- Northern Pacific ry. Northern Pacific railway, Passenger traffic dept., St Paul, Minn.
- Otis. Otis elevator company, Publicity division, 260 Eleventh Av, New York City
- Pennzoil. Pennzoil company, Advertising dept., Oil City, Pa.
- Progress film. Progress film company, 2120 Lincoln Park West, Chicago, Ill.
- Quaker. Quaker oats company, School health service, 141 W. Jackson Blvd, Chicago, Ill.
- Religious motion picture found. Religious motion picture foundation, inc., 140 Nassau St, New York City
- Rhodes. James H. Rhodes & company, 153 West Austin Av, Chicago, Ill.

DIRECTORY OF PRODUCERS

Roosevelt house. Roosevelt house library and museum, 28 E. 20th St, New York City

Demand for these films is heavy in October and reservations should be made far in advance

Rothacker. Douglas D. Rothacker, 729 Seventh Av, New York City

Scientific film. Scientific film company, 20 Lanvale Av, Daytona Beach, Fla.

Shields. Wendell G. Shields, 1270 Sixth Av, New York City

Singer. Singer sewing machine company, Singer bldg., New York City

Soc. for visual educ. Society for visual education, inc., 327 S. LaSalle St, Chicago, Ill.

Stone & Webster. Stone & Webster engineering corporation, 49 Federal St, Boston, Mass.

Service discontinued. Films may be obtained from YMCA.

Sutherland. E. W. Sutherland, Ashland folk school, Grant, Mich.

Tanners' council. Tanners' council of America, 100 Gold St, New York City

United air lines, 221 N. LaSalle St, Chicago, Ill.

Call nearest traffic office or write general traffic office at the above address

U.S. agric. U.S. Department of agriculture, Office of motion pictures, Washington, D.C.

These films may be purchased if desired

U.S. rubber. U.S. rubber company, 1790 Broadway, New York City

U.S. steel. U.S. steel corporation, 71 Broadway, New York City
Write for address of exchange nearest you

Univ. of Chicago press. University of Chicago press, 5750 Ellis Av, Chicago

Viscose. Viscose company, 200 Madison Av, New York City

Wadsworth. Mason Wadsworth, 551 Fifth Av, New York City

Western electric. Western electric company, inc., 195 Broadway, New York City

Write for address of exchange nearest you

Westinghouse. Westinghouse electric and manufacturing company, East Pittsburgh, Pa.

Wild flower preservation soc. Wild flower preservation society, 3740 Oliver St, Washington, D.C.

Winston. John C. Winston company, 1006-1016 Arch St, Philadelphia, Pa.

Women's bur. U.S. Department of labor, Women's bureau, Washington, D.C.
Will secure sale copies from firms making them for those interested

Yale. Yale university press film service, 386 Fourth Av, New York City

The entire series of Yale chronicles of America photoplays series may be bought at a discount

YMCA. Nation council of Young men's Christian associations, Motion picture bureau, 347 Madison Av, New York City; 19 S. LaSalle St, Chicago

Directory of Distributors

Although the following names constitute neither a complete nor an approved list, they are among the better known companies and organizations dealing in films for educational purposes. They are listed by locality because many of them distribute within their own or neighboring states only. To learn the exact status film users must write direct to the organization in which they are interested.

Arizona

University of Arizona
Tucson

California

Dennis, William M.
2506½ W. 7th St.
Los Angeles
Hollywood Cine Supply Company
1426 N. Beachwood Drive
Hollywood
Premier Pictures, Inc.
1906 S. Vermont Av.
Los Angeles
University of California
Berkeley
Visual Text & Equipment Company
2814 Council St.
Hollywood

Canada

Regina Photo Supply, Ltd.
Regina, Sask.

Colorado

Akin & Bagshaw, Inc.
1425 Williams St.
Denver
University of Colorado
Boulder

Hawaii

University of Hawaii
Honolulu

Illinois

Bass Camera Co.
179 W. Madison St.
Chicago
Bell & Howell
1801 Larchmont Av.
Chicago
Central Camera Co.
230 S. Wabash Av.
Chicago
Dudley, William H.
736 S. Wabash Av.
Chicago
Ideal Pictures Corporation
30 E. Eighth St.
Chicago

Roake Film Service
901 N. University
Peoria
University of Illinois
Urbana
Venard, C. L.
702 S. Adams St.
Peoria
World Service
740 Rush St.
Chicago
YMCA
Motion Picture Bureau
19 South La Salle St.
Chicago

Indiana

South Bend Bait Company
South Bend
University of Indiana
Bloomington

Iowa

Iowa State College
Ames
University of Iowa
Iowa City

Kansas

Hall Stationery Co.
623 Kansas Av.
Topeka
University of Kansas
Lawrence

Kentucky

University of Kentucky
Lexington

Louisiana

Harcot Motion Picture Industries
610 Baronne St.
New Orleans

Massachusetts

Atlantic Motion Picture Service
108 Massachusetts Av.
Boston
Boston Museum of Fine Arts
Boston
Cambridge Museum for Children
5 Jarvis St.
Cambridge

DIRECTORY OF DISTRIBUTORS

Free Films Service
 Boston University School of Education
 Boston
 International Educational Pictures, Inc.
 40 Mt. Vernon St.
 Boston
 Massachusetts. Division of university ex-
 tension
 State House
 Boston
 Visual Education Service
 470 Stuart St.
 Boston
 Wholesome Film Service
 48 Melrose St.
 Boston

Michigan

Community Picture League
 2539 Woodward Av.
 Detroit
 Kent Scientific Museum
 Grand Rapids
 Metropolitan Motion Picture Co.
 1745 E. Grand Blvd.
 Detroit
 Public Library & Museum
 Kalamazoo

Minnesota

St. Paul Institute
 Visual instruction Service
 St. Paul
 Service complete with projector to Twin
 cities only
 University of Minnesota
 Minneapolis

Missouri

Educational Museum
 3325 Bell Av.
 St. Louis
 University of Missouri
 Columbia

New Jersey

New Jersey State Museum
 Trenton
 Stewart's School Films
 21 Liberty St.
 Trenton

New York

Allen Studios, Inc.
 80 East Av.
 Rochester
 American Museum of Natural History
 77th St. & Central Park West
 New York City
 Auten, Harold
 1540 Broadway
 New York City
 Cine Classic Library
 1041 Jefferson Av
 Brooklyn
 Edited Pictures System, Inc.
 330 W. 42d St.
 New York City

Films, Inc.
 330 W. 42d St.
 New York City
 Garrison Film Distributors, Inc.
 729 Seventh Av.
 New York City
 Institutional Cinema Service, Inc.
 130 W. 46th St.
 New York City
 Kodascope Libraries, Inc.
 33 W. 42d St.
 New York City
 New York State Department of Health
 Albany
 New York Zoological Park
 185th St. & Southern Blvd.
 New York City
 Available to schools of New York city
 only
 Nu-Art Filmco
 145 W. 45th St.
 New York City
 Presbyterian Church
 Board of Foreign Missions
 156 Fifth Av.
 New York City
 Principal Distributing Corporation
 1501 Broadway
 New York City
 Write for address of exchange nearest
 you
 School Films Service, Inc.
 55 W. 42d St.
 New York City
 Topical Pictures
 18 E. 48th St.
 New York City
 United Projector & Film Corporation
 228 Franklin St.
 Buffalo
 Willoughby
 110 W. 32d St.
 New York City
 YMCA
 Motion Picture Bureau
 347 Madison Av.
 New York City

North Carolina

University of North Carolina
 Chapel Hill

North Dakota

Gibson, Angela Murray
 Casselton

Ohio

Church and School Film Service
 1635 Central Parkway
 Cincinnati
 Department of Education
 Columbus
 Manse Library
 409 McAlpin Av. (Clifton)
 Cincinnati
 Twyman, Alan B.
 Post Office Box 44
 Dayton

Oklahoma

University of Oklahoma
 Norman

DIRECTORY OF DISTRIBUTORS

Oregon

Hill, Louis
814 S.W. Sixth Av.
Portland
State College of Oregon
Corvallis
YMCA
Motion Picture Bureau
925 N.W. 19th Av.
Portland

Pennsylvania

Classroom Film Library
W. S. Smith
E. Main St. & Washington Av.
Carnegie
Erie Public Library and Erie Public Mu-
seum
Erie
Pinkney Film Service
1028 Forbes St.
Pittsburgh
Presbyterian Church. Board of Christian
Education
Witherspoon Bldg.
Philadelphia
St. Thomas College
Scranton
Williams, Brown & Earle, Inc.
918 Chestnut St.
Philadelphia

South Dakota

University of South Dakota
Vermillion

Tennessee

Southern Film Library
Knoxville

Texas

University of Texas
Austin

Virginia

University of Virginia
Charlottesville

Utah

Brigham Young University
Provo

Washington

State College of Washington
Pullman

Wisconsin

Milwaukee Public Museum
Milwaukee
University of Wisconsin
Madison



